

# CATALOGUE

OF THE

# UNIVERSITY OF ARKANSAS

THIRTY-SECOND EDITION



FOUNDED MARCH 27, 1871

FAYETTEVILLE, ARKANSAS

1904 - 1905



ARKANSAS DEMOCRAT COMPANY  
LITTLE ROCK

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## **ERRATA**

Page 19, after Prof. B. J. Dunn, read Alvin Arthur Steel,  
B. S., E. M., Associate Professor of Geology and Mining.

Page 51, page reference in foot note should read pp. 135-6.

Page 202, Lueker, Traugott, read Friedrich for Frieledrich.

Page 214, last line, read Philippine for Phillipine.

# 1905

## JANUARY

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# 1906

## JANUARY

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## APRIL

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## JUNE

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## Calendar, 1905-1906.

### 1905.

- SEPT. 20. *Academic Year* Begins in all Departments at Fayetteville—Wednesday.
- SEPT. 20-23. Examinations for Admission to B. A., B. S., Engineering, Normal, and Preparatory Courses—Wednesday to Saturday.
- SEPT. 25. Fall Term Begins in the Law School, Little Rock—Monday.
- OCT. 16. Regular Session Begins in the Medical School, Little Rock—Monday.
- NOV. 24. Thanksgiving Day—a Holiday—Thursday.

### 1906.

- JAN. 27. Mid-Year Examinations Begin in the Departments at Fayetteville—Saturday.
- JAN. 20. Fall Term of Law School Ends.—Saturday.
- JAN. 22. Spring Term of Law School Begins—Monday.
- FEB. 3. First Term Ends in all Departments at Fayetteville—Saturday.
- FEB. 5. Second Term Begins in all Departments at Fayetteville—Monday.
- FEB. 22. Washington's Birthday—Wednesday.
- MCH. 27. Thirty-fifth Anniversary of the Foundation of the University of Arkansas—Tuesday.
- APR. 14. Regular Session Ends in the Medical School, Little Rock—Saturday.
- MAY 1. Last Day for Receiving Essays for the William Jennings Bryan Prize—Tuesday.
- MAY 30. Memorial Day—a Holiday—Wednesday.
- JUNE 1. Spring Term of Law School Ends—Friday.
- JUNE 3. Memorial Day—a Holiday—Sunday.
- JUNE 7. Final Examinations Begin in the Departments at Fayetteville—Thursday.
- JUNE 17. Baccalaureate Sermon, U. of A. Chapel—Sunday
- JUNE 21. *Commencement*—Thursday.

## Departments of the University.

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The University comprehends the following departments:

*At Fayetteville:*

THE COLLEGE.

THE PREPARATORY SCHOOL.

THE CONSERVATORY OF MUSIC AND ART.

THE AGRICULTURAL EXPERIMENT STATION.

*At Little Rock:*

THE MEDICAL SCHOOL.

THE LAW SCHOOL.

*At Pine Bluff:*

THE BRANCH NORMAL COLLEGE.

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\*Term expired January 23, 1905.

†Term began January 23, 1905.



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---

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BOLLING JAMES DUNN, A. M.

HAZEL ARCHER YATES.

ALVIN ARTHUR STEEL, B. S., E. M.

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\*Relieved January 30, 1905.

†Detailed January 31, 1905.

## COMMITTEES OF THE FACULTY.

The President of the University is *ex-officio* a member of all Standing Committees.

1. ON DISCIPLINE —Professors Gladson, Cole, and Pickel.
2. ON DOUBTFUL CASES—Professors Knoch, Reynolds, and Muckenfuss.
3. ON CLASSIFICATION AND PETITIONS —B. A. and B. S. students, Professors Purdue and Shannon; B. M. E. students, Professor Wilson; B. C. E. students, Professor Knoch; B. E. E. students, Professor Gladson; B. Mi. E. students, Professor Purdue; B. Ch. E. and B. S. C. students, Professor Muckenfuss; B. S. A. students, Professors Cole and Walker; Conservatory students, Professor Yates; Preparatory students, Professor Kuykendall.
4. ON ACCREDITED SCHOOLS —Professors Reynolds, Dunn, Muckenfuss, and Shannon.
5. ON THE LIBRARY —Professors Carr, Reynolds, and Purdue, and Miss Pace.
6. ON ATHLETICS —Professors Futrall and Powers.
7. ON THE CATALOGUE —Professors Carr, Futrall, and Knoch.
8. ON THE SCHEDULE —Professors Futrall, Purdue, and Gladson.
9. EMPLOYMENT BUREAU —Professors Johnson, Knoch, and Shannon.
10. ON PETITIONS IN THE MILITARY DEPARTMENT —Professors Dunn, Carr, Brough, and Powers.
11. ON ENTERTAINMENTS —Professors Wilson, Brough, and Yates.
12. ON COMMENCEMENT —Professors Johnson, Droke, and Gladson

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*Professor of Military Science and Tactics.*
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*Associate Professor of English and Modern Languages.*
- BOLLING JAMES DUNN, A. M.,  
*Associate Professor of Mathematics.*
- HADGIE BOOKER DAVIES, B. A.,  
*Adjunct Professor of English and Modern Languages.*
- THEODORE CHARLES TREADWAY, E. E.,  
*Adjunct Professor of Mechanical Engineering.*
- HUGH ELLIS MORROW, B. S. A.,  
*Adjunct Professor of Chemistry.*
- VIRGIL PROCTOR KNOTT, B. C. E.,  
*Instructor in Civil Engineering.*
- HEINRICH SCHAPPER, E. E., B. S.,  
*Instructor in Electrical Engineering and Physics.*
- JOHN RHINE BLOOM, B. E. E.,  
*Assistant in Electrical Engineering.*
- WILL ADDIE HARDING,  
*Machinist.*

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### **Fayetteville.**

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*President.*
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*Instructor in Mathematics.*
- EMMA WILMER COLE, A. B. (Resigned January 18, 1905).  
*Instructor in History, Latin, and Mathematics.*

\*Relieved January 30, 1905.

†Detailed January 31, 1905.

MARY ANNE DAVIS,

*Instructor in English and History.*

MARY WHITFIELD VAULX,

*Instructor in English and History.*

ROBERT EDWARD PHILBECK, B. A.,

*Instructor in Mathematics.*

NAOMI JOSEPHINE WILLIAMS, M. A.,

*Instructor in Latin and History.*

DAISY YOUNG, B. A.,

*Instructor in Mathematics.*

JESSIE MELVILLE McKAY,

*Instructor in English, History, and Physiology.*

GENEVIEVE CHRISTINE BRODERSEN, B. A.,

*Instructor in Mathematics, Latin, and English.*

MABEL SUTTON, B. A. (Elected January 18, 1905)

*Instructor in History, Latin, and Mathematics.*

---

## The Conservatory of Music and Arts.

---

Fayetteville.

---

HENRY SIMMS HARTZOG, LL. D.,

*President.*

HAZEL ARCHER YATES, DIRECTOR

*Piano and Violin.*

GERTRUDE CRAWFORD,

*Voice Culture.*

FRANK BARR,

*Band Instruments.*

MARTHA HUDSON WHITE,

*Elocution and Physical Culture.*

FRANCES McSWINE,

*Art.*

CORDELIA BAIRD,

*Art.*

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---

**Fayetteville.**

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*Director.*

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*Pathologist and Bacteriologist.*

ERNEST WALKER, B. S. A.,  
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*Agriculturist.*

JOHN HENRY NORTON, B. Agr., B. S.,  
*Chemist.*

VICTOR ALBERT HOOPER,  
*Instructor in Dairying.*

---

## **The Medical School.**

---

**Little Rock.**

---

HENRY SIMMS HARTZOG, LL. D.,  
*President.*

JAMES A. DIBRELL, M. D.,  
*Professor of General, Descriptive, and Surgical Anatomy,  
and President of the Medical Faculty.*

EDWIN BENTLEY, M. D., U. S. A. (Retired),  
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C. WATKINS, M. D.,  
*Professor of the Practice of Medicine.*

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E. R. DIBRELL, M. D.,  
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*Professor of Ophthalmology and Otology.*

THOMAS N. ROBERTSON, A. B., LL. B.,

*Professor of Medical Chemistry and Toxicology.*

W. H. MILLER, M. D.,

*Professor of Obstetrics.*

F. L. FRENCH, M. D.,

*Professor of Materia Medica, Therapeutics, Hygiene, and Botany, and Secretary of the Faculty.*

CARLE E. BENTLEY, M. D.,

*Professor of Clinical Surgery and Dermatology*

JOHN R. DIBRELL, M. D.,

*Professor of Surgical Pathology and Bacteriology*

W. C. DUNAWAY, M. D.,

*Demonstrator of Anatomy.*

E. E. MOSS, A. M., LL. B.,

*Professor of Legal Medicine.*

R. W. LINDSEY, M. D.,

*Lecturer and Clinical Instructor in the Practice of Medicine.*

C. E. WITT, M. D.,

*Lecturer and Clinical Instructor in the Practice of Medicine, and Adjunct Professor of Materia Medica and Therapeutics.*

H. C. STINSON, M. D.,

*Lecturer and Clinical Instructor in the Diseases of the Nervous System.*

MORGAN SMITH, M. D.,

*Lecturer and Clinical Instructor in the Diseases of Children.*

ANDERSON WATKINS, M. D.,

*Adjunct Professor of Physiology, and Assistant in Clinical Surgery and Dermatology.*

W. A. SNODGRASS, M. D.,

*Assistant in Gynecology.*

J. G. WATKINS, M. D.,

*Assistant in Otology and Ophthalmology.*

A. R. STOVER, M. D.,

*Assistant in Clinical Medicine.*



- A. E. SWEATLAND, M. D.,  
*Assistant Demonstrator of Anatomy.*
- A. L. CARMICHAEL, M. D.,  
*Assistant Demonstrator of Anatomy.*
- OSCAR GRAY, M. D.,  
*Assistant Demonstrator of Anatomy.*
- 

## **The Law School.**

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**Little Rock.**

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- J. H. CARMICHAEL, LL. B., DEAN,  
*Contracts, Equity Jurisprudence, and Corporations*
- JOHN FLETCHER, LL. M.,  
*Real Property.*
- GEORGE W. MURPHY, LL. B.,  
*Law of Evidence.*
- TOM M. MEHAFFY, LL. B.,  
*Law of Torts.*
- EDWARD W. WINFIELD, LL. B.,  
*Pleading and Practice.*
- JAMES F. LOUGHBOROUGH, LL. B.,  
*Conflict of Laws.*
- LEWIS RHOTON, LL. B.,  
*Domestic Relations.*
- THOMAS N. ROBERTSON, LL. B.,  
*Agency, Commercial Papers, and Judgments.*
- THOMAS E. HELM, LL. B.,  
*Partnerships and Insurance.*
- AUGUSTUS M. FULK, LL. B.,  
*Criminal Law, Practice, and Procedure.*
- JAMES P. CLARKE, U. S. SENATOR,  
*Lecturer.*
- JUDGE JACOB TRIEBER,  
*Lecturer.*

HON. MORRIS M. COHN,  
*Lecturer.*

HON. JAMES H. HARROD,  
*Lecturer.*

HON. GEORGE B. ROSE,  
*Lecturer.*

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### The Branch Normal College.

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#### Pine Bluff.

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ISAAC FISHER, PRINCIPAL,  
*Psychology, Ethics, and Pedagogy.*

JOHN H. MICHAEL,  
*Mathematics, Architectural Drawing, and English*

WILLIAM B. CRITTENDEN,  
*Ancient and Modern Languages, and Mathematics*

IRENE V. COLEMAN,  
*Algebra, Arithmetic, and Ancient History.*

JULIA O. WRIGHT,  
*Geography, United States History, Typewriting, and Music*

SADIE M. PEEBLES,  
*Free Hand Drawing, English, and Arithmetic.*

MATTIE I. BENSON,  
*Dressmaking and Music.*

B. N. WILSON, B. Sc. M. E.,  
*Superintendent of Mechanic Arts.*

W. S. HARRIS,  
*Assistant Superintendent of Mechanic Arts.*

J. L. ROSS,  
*Machine Shop and Forge.*

# ADMINISTRATIVE OFFICERS OF THE UNIVERSITY OF ARKANSAS.

HENRY SIMMS HARTZOG, LL. D. . . . .	Office, *U. H. 1, <i>President.</i>	Fayetteville.
OTTEY MILLER, M. D. . . . .		Fayetteville. <i>Treasurer.</i>
HUGH FRENCH REAGAN. . . . .		Fayetteville. <i>Secretary of the Board of Trustees.</i>
JOHN CLINTON FUTRALL, A. M. . . . .	U. H. 20,	Fayetteville. <i>Secretary of the College Faculty.</i>
FRANK WELBORN PICKEL, A. B., M. Sc. . . . .	U. H. 32	Fayetteville. <i>Recorder of the College Faculty (1904-1905).</i>
ALBERT HOMER PURDUE, A. B. . . . .	U. H. 39,	Fayetteville. <i>Curator of the Museum.</i>
GEORGE ALBERT COLE, B. S., A. M. . . . .	Agricultural Exper. <i>Superintendent of Agriculture.</i>	Station, Fayetteville
BURTON NEILL WILSON, B. Sc., M. E. . . . .	Engineering Hall, <i>Superintendent of Mechanic Arts.</i>	Fayetteville
ROBERT BOYD POWERS (West Point), Capt., U. S. A.		
	<i>Commandant.</i>	U. H. 4, Fayetteville.
ADA PACE. . . . .	U. H. 22,	Fayetteville. <i>Librarian.</i>
THEODORE CHARLES TREADWAY, E. E. . . . .	Engineering <i>Assistant Superintendent of Mechanic Arts.</i>	Hall.
CHARLES WALLACE WEBB. . . . .	U. H. 2,	Fayetteville. <i>Secretary to the President.</i>
MRS. FANNIE WASHINGTON	New Dormitory,	Fayetteville. <i>Superintendent of Dormitories.</i>
JAMES WYSE KUYKENDALL. . . . .	U. H. 13,	Fayetteville <i>Principal of the Preparatory School.</i>
HAZEL ARCHER YATES. . . . .	U. H. 26,	Fayetteville <i>Director of the Conservatory of Music and Arts.</i>

- WILLIAM GEORGE VINCENHELLER.....Fayetteville  
*Director of the Agricultural Experiment Station.*
- JAMES A. DIBRELL, M. D.....Little Rock  
*President of the Medical Faculty.*
- F. L. FRENCH, M. D..... Little Rock.  
*Secretary of the Medical Faculty.*
- JAMES H. CARMICHAEL, LL. B.....Little Rock.  
*Dean of the Law Faculty.*
- THOMAS N. ROBERTSON, LL. B.. .... Little Rock  
*Secretary of the Law Faculty.*
- ISAAC FISHER.....Pine Bluff.  
*Principal of the Branch Normal College.*



**PART II.**

**THE UNIVERSITY**

**AND**

**ITS DEPARTMENTS.**

### **Origin.**

The University of Arkansas owes its origin to an act of congress, approved July 2, 1862, providing that public lands should be granted to the several states, to the amount of "30,000 acres for each senator and representative in congress," from the sale of which there should be established a perpetual fund, "the interest of which shall be inviolably appropriated by each state, which may take and claim the benefit of this act, to the endowment, support, and maintenance of at least one college, where the leading object shall be, without excluding other scientific and classical studies and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life." The act forbids the use of any portion of the aforesaid fund, or of the interest thereon, for the purchase, erection, or maintenance of any building or buildings. The states accepting the provisions of the act are required to provide for the construction and maintenance of the necessary buildings, and for the expenses of administration in carrying out the purposes of the act.

The general assembly of the state of Arkansas accepted the national law by passing an act, approved March 27, 1871, which provided for the location, organization, and maintenance of the University of Arkansas, and which allowed the several counties of the state to compete until a certain time for the location of the University by making public or private donations of bonds,

moneys or lands. Several individuals and communities made bids: Washington, the only county that competed, voted \$100,000. Fayetteville, Washington County, voted \$30,000 in addition, and was selected as the seat of the University. The institution was opened January 22, 1872.

Under an act of congress, approved March 2, 1887, the University receives \$15,000 annually for the maintenance of the experiment station, "to aid in acquiring and diffusing among the people useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science."

Under an act of congress, approved August 30, 1890, the University receives \$25,000 annually, "to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their application to the industries of life."

### **Purpose.**

The University is as the head of the public educational system of the state of Arkansas. It seeks to foster the higher educational interests of the state, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its faculty and board of trustees, from year to year, to bring it into still closer articulation with the public schools of the state, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature and science, and technical education in the industrial arts and professional studies.

Through the aid received from the United States and from the state of Arkansas, the University is enabled to offer to its students free tuition, except in the studies of law, medicine, music, and art, and to open wide her doors to all seekers of learning.

### **Location.**

Four of the seven departments of the University, viz: the College, the Preparatory School, the Conservatory of Music and Art, and the Agricultural Experiment Station, are located at Fayetteville, Washington County, Arkansas. Situated in the heart of the Ozark Mountains, it is more than 1,500 feet above the sea level. The location is thought to be unsurpassed in salubrity of climate, in beauty of surrounding scenery, in variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south by the Texas branch of the St. Louis & San Francisco Railroad, which has three trains daily each way, and various connections with other roads, both north and south. From the west students may reach Fayetteville by the Ozark & Cherokee Central Railroad.

### **The College of Liberal Arts, Sciences, and Engineering.**

**Fayetteville.**

HENRY SIMMS HARTZOG, LL. D. . . . . 717 W. Dickson St.  
*President, and Professor of the History of Fine and Applied Art.*

Graduate, South Carolina Military Academy, 1886, B. S. C. E.; Southern Baptist Theological Seminary, 1888-1890; Principal, Bamberg Graded Schools,

1890-1894; Superintendent, Johnston Institute, 1894-1897; President, Clemson Agricultural, Mechanical, and Textile College of South Carolina, 1897-1902; L.L. D., Mercer University; Director, South Carolina Experiment Station, 1897-1902; present position since 1902.

JOHN CLINTON FUTRALL, M. A. . . . . 226 N. College Ave.

*Professor of Ancient Languages.*

B. A. and M. A., University of Virginia, 1894; graduate student of classical philology, Universities of Bonn and Halle, Germany, 1899-1900; present position since 1894; member of the Archæological Institute of America.

GEORGE WESLEY DROKE, A. M. . . . . 103 Hill St.

*Professor of Mathematics and Astronomy.*

A. B., University of Arkansas, 1880; A. M., University of Arkansas 1884; Assistant in Preparatory Department, University of Arkansas, 1880-1884; Professor of English, Coronal Institute, San Marcos, Texas, 1885; Principal, Public School, Bentonville, Arkansas, 1886; Assistant in the Preparatory Department, University of Arkansas, 1887-1891; Adjunct Professor of Mathematics, University of Arkansas, 1892-1893; Associate Professor of Mathematics, University of Arkansas, 1894-1896; graduate student several short terms in John Hopkins University, and the University of Chicago; present position since 1897.

JULIUS JAMES KNOCH, M. S., C. E. . . . 402 N. College Ave.

*Professor of Civil Engineering.*

B. S., Grove City College, 1886; Instructor in German and Mathematics, Grove City College, 1886-1888, M. S., Grove City College, 1889; C. E., Cornell University, 1892; practical work, 1892-1893; Adjunct Professor of Civil Engineering, University of Arkansas, 1893-1894, Associate Professor of Civil Engineering University of Arkansas, 1894-1896; present position from 1896 to date. Member Society for Promotion of Engineering Education; associate member, American Society of Civil Engineers.

WILLIAM NATHAN GLADSON, M. S. E. E., Ph. D.,

820 W. Maple St.

*Professor of Electrical Engineering and Physics.*

B. M. E., Iowa State College, 1888; Construction Engineer and Expert, Thompson Houston Electric Co., 1888-1891; Draughtsman and Engineer on World's Fair Work for Westinghouse Electric and Manufacturing Co., 1891-1892; Assistant Professor of Electrical Engineering Ohio State University, 1892-1893; with Westinghouse Electric and Manufacturing Co., 1893-1894; Associate Professor of Electrical Engineering, University of Arkansas, 1894-1897; M. S. E. E., 1896; Ph. D., 1898; Professor of Electrical Engineering, University of Arkansas, 1897-1904, present position since 1904; member of the American Institute of Electrical Engineers; member of the Society for Promotion of Engineering Education.

ALBERT HOMER PURDUE.....538 Leverett St.  
*Professor of Geology and Mining.*

Graduate, Indiana State Normal School, 1886; Principal, High School, Sullivan, Indiana, 1886-1887; Superintendent of Schools, West Plains, Missouri, 1887-1888; student, Purdue University, 1888-1889; A. B., Leland Stanford, Jr., University, 1893; graduate student, 1893-1894; Principal, High School, Rensselaer, Indiana, 1894-1895; Senior Fellow, Department of Geology, University of Chicago, 1895-1896; Professor of Geology, University of Arkansas, 1896-1903; Professor of Geology and Mining since 1903; Assistant Geologist, Geological Survey of Arkansas, 1892; Superintendent Arkansas Mineral Exhibit, Louisiana Purchase Exposition; member, American Institute of Mining Engineers; Fellow, Geological Society of America; member of other scientific societies.

FRANK WELBORN PICKEL, A. B., M. Sc., 808 W. Maple St.  
*Professor of Biology.*

A. B., Furman University, 1886; M. S., University of South Carolina, 1890; M. Sc., University of Chicago, 1899; Teacher in Public School, 1886-1888, Instructor in Biology, and Bacteriologist of Experiment Station in University of South Carolina, 1889-1891; Professor of Natural Science in A. & M. College of Florida, 1891-1892; graduate student, John Hopkins University, 1892-1894; Professor of Greek and German, Mississippi College, 1895-1897, graduate student, University of Chicago, 1897-1899; present position since 1899.

ERNEST WALKER, B. S. A.....524 Leverett St.  
*Professor of Horticulture.*

B. S. A., Cornell University, 1897; Instructor in Horticulture, Cornell University, 1897; Assistant Professor of Horticulture, Clemson College, and Entomologist and Assistant Horticulturist of the South Carolina Experiment Station, 1897-1898; Professor of Entomology, Clemson College, and Entomologist of the South Carolina Experiment Station, 1898-1900, present position since 1900; State Entomologist since 1903; member of the Society for Horticultural Science, and Association for the Promotion of Science, Secretary of the State Horticultural Society since 1900, State Vice President of the American Pomological Society.

JOSEPH WILLIAM CARR, A. M., Ph. D., 353 Highland Ave.  
*Professor of English and Modern Languages.*

A. B., Harvard University, 1893, A. M., Harvard University, 1895; English and Classical Master, St. Bartholomew's School, Morristown, New Jersey, 1894-1897; graduate student of English, Germanic, and Romance Philology, University of Leipzig, 1897-1899; Ph. D., University of Leipzig, 1899; Instructor in German, Harvard University and Radcliffe College, 1899-1900; acting head of the German Department, West Virginia University, 1900-1901; Associate Professor of English and Modern Languages, University of Arkansas, 1901-1902; present position since 1902, member of the Modern Language Association of America, and the Goethe Gesellschaft in Weimar, Germany; State Secretary of the American Dialect Society.



WILLIAM SMYTHE JOHNSON, Ph. D., . . . . 228 Rollston St.  
*Professor of Philosophy and Pedagogy.*

A. B., Ouachita Baptist College, 1890; Instructor in Mathematics, Ouachita Baptist College, 1890-1892; President of Mountain Home Baptist College, 1892-1896; graduate student, Yale University, 1896-1899; Ph. D., Yale University, 1899; Lecturer in Psychology, Yale University, 1899-1900; Professor of Psychology and Pedagogy, Louisiana State Normal College, 1900-1902; present position since 1902.

JOHN HUGH REYNOLDS, A. M., . . . . . 814 W. Maple St.  
*Professor of History and Political Science.*

A. B., Hendrix College, 1893; A. M., University of Chicago, 1897; Principal, High School, and County Examiner, Rover, 1893-1896; Vice President, and Professor of History and Political Science, Hendrix College, 1897-1902; Secretary, Arkansas Historical Association; Arkansas Member of Public Archives Commission of American Historical Association; President Arkansas Teachers' Association; and Chairman, Rural School Commission.

ANTHONY MOULTRIE MUCKENFUSS, Ph. D.,  
*Professor of Chemistry.* 231 N. East St.

A. B., Wofford College, South Carolina, 1889, and A. M., 1890; Principal, Dalcho High School, South Carolina, 1889-1891; student, Johns Hopkins University, 1891-1893, and 1894-1895, and Ph. D., 1895; student, University of Virginia, 1892; Berlin, 1895; and Chicago, 1896, 1898, and 1902 (summer semesters); Professor of Chemistry and Physics, Millsaps College, Mississippi, 1893-1894, and 1895-1902; Professor of Chemistry and Physics, University of Arkansas, 1902-1904; present position since 1904.

BURTON NEILL WILSON, B. Sc. M. E. 241 N. College Ave.  
*Professor of Mechanical Engineering.*

B. Sc. M. E., Georgia School of Technology, 1896; studied at the University of Michigan, 1903; Instructor in Mechanical Engineering, University of Arkansas, 1896-1899; Adjunct Professor of Mechanical Engineering, and Superintendent of Buildings and Grounds, 1899-1902; present position since 1902; member, American Society of Mechanical Engineers.

CHARLES HILLMAN BROUGH, A. M., LL. B., Ph. D.,  
*Professor of Economics and Sociology.* 343 Arkansas Ave.

A. B., Mississippi College, 1894, A. M., Mississippi College, 1899; Fellow in Political Economy, Johns Hopkins University, 1897-1898; Ph. D., Johns Hopkins University, 1898, LL. B., University of Mississippi, 1902. Professor of Philosophy, History, and Economics, Mississippi College, 1898-1901, Professor of Economics and History, Hillman College, 1902-1903; present position since 1903; member of American Economic and Historical Associations; First Vice President, Arkansas State Historical Society.

GEORGE ALBERT COLE, B. S., A. M. . . . . 763 W. Dickson St.  
*Professor of Agriculture.*

Connected with the University of Arkansas since 1892.

ROBERT BOYD POWERS (West Point), Captain, Seventh  
 Cavalry, U. S. A., Washington Hotel.  
*Professor of Military Science and Tactics.*

Graduate of West Point, 1896; commissioned officer since 1896; present position since January 31, 1905

EDGAR FINLEY SHANNON, A. B. . . . . 15 N. Duncan Ave.  
*Associate Professor of English and Modern Languages.*

A. B., Central University of Kentucky, 1893; Principal of Princeton, Arkansas, Public Schools, 1893-1894; Associate Professor of Ancient Languages, University of Arkansas, 1895-1902; student at the summer sessions of Harvard University, 1902, 1903, 1904; present position since 1902; member of the Modern Language Association of America.

BOLLING JAMES DUNN, A. M. . . . . 129 E. Dickson St.  
*Associate Professor of Mathematics.*

A. B., Bethel College, 1871; A. M., Bethel College, 1874; Principal of Philadelphia Baptist High School, 1877-1886; Professor of Mathematics, Ouachita Baptist College, 1886-1894; Principal of Preparatory Department, University of Arkansas, 1894-1898; present position since 1898.

ALVIN ARTHUR STEEL, B. Sc. in C. E., E. M., 421 College Ave.  
*Associate Professor of Geology and Mining.*

B. S. in C. E., University of Nebraska, 1899; E. M., Columbia University in the City of New York, 1900; Assistant in Chemistry, University of Nebraska, 1898-1899; with Omaha and Grant Smelter, 1898; Assistant Engineer, B & M. R. R. R., 1899; Practicing and Consulting Engineer, with Fernando Mining Co., San Fernando, Durango, Mexico; the Greene Consolidated Copper Co., La Cananea, Sonora, Mexico; the Pacific Consolidated Copper Co., Pyramid, Nevada; and the Engineering Co of America, in several parts of the United States and Mexico, 1900-1904; Assistant Engineer of Briquetting Experiments, U. S. G. S. Coal Testing Plant, Louisiana Purchase Exposition, 1904.

HADGIE BOOKER DAVIES, B. A. . . . . 207 N. College Ave.  
*Adjunct Professor of English and Modern Languages.*

B. A., University of Arkansas, 1893, teacher of English, Mary Baldwin Seminary, Staunton, Virginia, 1894-1898; present position since 1898; member of the Modern Language Association of America.

THEODORE CHARLES TREADWAY, E. E.,  
 340 Arkansas Ave.

*Adjunct Professor of Mechanical Engineering, and Assistant Superintendent of Mechanic Arts.*

B. E. E., University of Arkansas, 1901, E. E., University of Arkansas, 1904; in the employ of the Little Rock Telephone Co., 1902-1903; present position since 1903.

HUGH ELLIS MORROW, B. S. A. . . . . 305 Lafayette Ave  
*Adjunct Professor of Chemistry.*

B. S. A., University of Arkansas, 1904; present position since 1904.

VIRGIL PROCTOR KNOTT, B. C. E. . . . . 402 N. College Ave.  
*Instructor in Civil Engineering.*

B. C. E., University of Arkansas, 1904, present position since 1904.

HEINRICH SCHAPPER, E. E., B. S. . . . . S Hill St.  
*Instructor in Electrical Engineering and Physics.*

E. E., Karlsruhe, 1903; B. S. (Physics), Massachusetts Institute of Technology, 1904; present position since 1904.

JOHN RHINE BLOOM, B. E. E. . . . . 411 N. College Ave.  
*Assistant in Electrical Engineering.*

B. E. E., University of Arkansas, 1904, present position since 1904.

WILL ADDIE HARDING. . . . . Hill and Town Sts.  
*Machinist.*

## Equipment of the College.

### UNIVERSITY HALL.

This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above the basement. It consists of a front building, two hundred and fourteen feet in length, and two wings, each one hundred and twenty-four feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, chapel, departmental library of English and modern languages, general library and collegiate study hall, separate study halls for the boys and girls of the preparatory department, armory, magazine, band room, laboratories for biology, geology and mining engineering, music and art rooms, president's and commandant's offices, natural history museum, literary society halls, toilet rooms, etc., in all, seventy

rooms, together with broad corridors and stairways. The building is heated by steam, lighted by electricity, and supplied with water from the city waterworks.

#### SCIENCE HALL.

This building, a two-story brick structure, fifty by ninety feet, is used by the department of chemistry. The basement is fitted up for assaying. On the first floor are the main chemical lecture room, two balance rooms, the chemical library, the quantitative store room and laboratory, and the office of the professor in charge. On the second floor are to be found the laboratories for general and organic chemistry, and for qualitative analysis; also a smaller class room, a commercial laboratory, a fuming room, the general store room, and the office of the adjunct professor. The building will accommodate about two hundred students.

#### ENGINEERING HALL.

Engineering Hall is located on the main driveway, just south of University Hall. It accommodates the departments of electrical, civil, and mechanical engineering, with offices, lecture rooms, and laboratories. It is built of native sandstone and pressed brick, with limestone trimmings. The construction is slow-burning and nearly fireproof.

The building is one hundred and fifty by fifty-eight feet four inches, three stories high and contains thirty-two rooms, aggregating about 26,000 square feet of floor space. A corridor divides the building from east to west and is intersected at the middle by another hall-way from the front of the building, thus giving easy access to any room.

In addition to the laboratories, offices, lecture rooms, and draughting rooms of departments of engineering, there is an assembly room on the first floor for the accommodation of the engineering societies, and other gatherings too large to be accommodated in a lecture room.

The library and reading room contains engineering magazines, journals, and technical works on engineering.

Owing to the inadequate appropriation, the building is not fully equipped, but the design provides for steam heat from the central station, electric light, and power, and an elevator from the basement to the second floor.

#### **MECHANICAL HALL.**

Mechanical Hall was built to take the place of the building consumed by fire on October 20, 1902. It is of brick, forty feet wide and one hundred and fifty-five feet in length, with a boiler house, thirty-five by forty feet adjoining, and contains the machine shop, wood shop, and forge shop. The shops will accommodate about fifty students at one time.

#### **BUCHANAN HALL.**

This is a substantial and handsome brick building, three stories high, and containing over forty rooms. It is favorably located, with a view to the health of the occupants, and convenience of access to University Hall. The rooms are large, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. From a wide veranda in front, there are three entrances to the building. There are also two rear entrances, and on the third floor a suite of rooms fitted up for an infirmary. Through the generosity of the

ladies of Fayetteville, this suite of rooms has been thoroughly equipped. In the rear of the hall a brick building has been erected, which furnishes bath and toilet rooms, supplied with cold and hot water.

#### THE NEW DORMITORY.

The new dormitory, for which a special appropriation was made by the general assembly of 1901, is now in use. It is located west of University Hall and north of Buchanan Hall, and is convenient of access to both buildings. It is a substantial brick structure, three stories high, with a foundation of range stone work, and with trimmings of dressed limestone, and contains in all some twenty-five rooms. The first story contains a commodious dining hall, thirty-eight by eighty-six feet, which is sufficiently large to accommodate all students who occupy rooms in University dormitories. On this floor also are kitchen, storeroom, furnace room, coal bin, etc. The second and third stories contain some twenty rooms for students, besides ample corridors, stairways, etc. By the aid of the superintendent and the liberality of the students and citizens a handsome suite of parlors has been tastefully and elegantly furnished. The entire building is heated by steam, lighted by electricity, and supplied with water by the city waterworks.

#### AGRICULTURAL BUILDINGS.

The principal buildings of the agricultural experiment station are of brick, one story in height. They contain several offices, the laboratories of the station, the station museum, and several commodious storerooms. Belonging to the department of agriculture are a large barn, stock shed, dairy house and other necessary



outbuildings. There is also a handsome and conveniently located cottage residence for the manager of the University farm.

#### HORTICULTURAL BUILDING.

This structure is twenty-three by sixty feet, is heated by steam, and supplied with improved ventilating apparatus and other modern conveniences. Attached to this is a building twenty-four by thirty feet, which is designed to be used as a laboratory for plant study. The equipment thus provided furnishes much-needed facilities for study and research to all persons interested in plant life, and especially to students of horticulture.

#### GENERAL LIBRARY AND DEPARTMENTAL LIBRARIES.

The general library, occupying the second floor of the north wing of University Hall, is for the use of the whole University. All students who have matriculated may take out books, one volume at a time, and may keep them one week. Officers of the University have access to the shelves, and students engaged in advanced work, upon recommendation by their instructors, are allowed to have books reserved from those parts of the collection with which they are occupied. The reading room of the general library is a study hall for *collegiate students only*.

The leading high class periodicals (including magazines, reviews, and various technical monthlies) are taken, and bound as they accumulate. This vast fund of current literature is rendered more useful and accessible by Poole's Complete Index to periodic literature from 1802 to the present time. Forty-five magazines, thirty-five weekly, and seven daily, papers are received by the general library.



The general library contains over 9,000 books and 3,000 pamphlets, with a catalogue on cards, which is accessible to the public and consists of two parts, the one arranged by authors, the other by subjects.

In addition there are departmental libraries, open to advanced students engaged in research work, and in charge of the heads of the several departments. These special libraries contain the following numbers of volumes:

*English and Modern Languages:* U. H. 30; 675 bound books; 205 unbound books. PROFESSOR CARR

*Mathematics and Astronomy* U. H. 34; 306 books; 45 pamphlets. PROFESSOR DROKE.

*Chemistry.* Science Hall; 128 books; 140 journals; 950 pamphlets. PROFESSOR MUCKENFUSS.

*Biology:* U. H. 32; 250 books PROFESSOR PICKLL.

*Geology and Mining:* U. H. 39; 1,227 books; 1,929 pamphlets. PROFESSOR PURDUE.

*Civil Engineering:* Eng Hall; 200 books. PROFESSOR KNOCH

*Agriculture and Horticulture:* Experiment Station; 1,768 books; 10,000 pamphlets; 35 journals. DIRECTOR VINCENTHILLER

*Preparatory School:* U. H. 12, 13, and 25; 180 books. PROFESSOR KUYKENDALL.

*Expression:* U. H. 38; 75 books MRS. WHITE.

Thus the various branches of the University library contain 13,809 books and 16,129 pamphlets.

#### DEPARTMENTAL LIBRARY OF ENGLISH AND MODERN LANGUAGES.

Those books which have been purchased with the funds of the department of English and modern languages, or have been presented to it in the way of donation or bequest, now form a *reference* library in room 30 of University Hall. By paying a deposit of twenty-five cents, students of the third and fourth year classes in

English and modern languages become entitled to keys to this library, and free access to its shelves. This collection of carefully selected volumes relating to the various phases of modern philology is an invaluable aid to advanced students. It is practically a private library for the individual student, and the laboratory of the department. The room is plainly but suitably furnished with settees, chairs, library table, and desk, and ornamented with the busts and portraits of authors and with other pictures of literary significance.

#### THE LABORATORIES, ETC.

In the laboratories of the University opportunities are afforded for practical instruction in chemistry, mineralogy, physics, botany, zoology, entomology, horticulture, and in civil, mechanical, electrical, chemical, and mining engineering.

#### Chemical Laboratories.

The laboratories for chemical work are six in number and are situated in Science Hall. The laboratory of general chemistry is furnished with desks capable of accommodating a hundred students. Each desk has a cupboard and drawers, and is provided with gas and water. The qualitative laboratory has desks for sixteen students. Each desk is provided with suitable conveniences for taking care of apparatus, and is supplied with all the common reagents. The rooms are provided with hoods, soapstone sinks, and other equipments usually found in chemical laboratories. The quantitative laboratory has suitable accommodation for sixteen students, with the usual equipments. Adjoining the quantitative laboratory is the weighing room, which contains three of

Becker's analytical balances, besides a number of less accurate instruments suitable for weighing large quantities of chemicals. The storerooms contain the distilled water outfit, and all the apparatus and chemicals, and are in charge of the janitor, who gives out the supplies. The other three laboratories, assay, organic, and commercial, are suitably equipped.

#### **Physical Laboratory.**

The first floor of Science Hall, with the exception of one lecture room, is devoted to physics. The laboratory for general physics is a room twenty by seventy feet, on the north side of the building. It contains tables and cases for apparatus. For advanced physics a separate room is provided and equipped with cases for apparatus, wall brackets for galvanometers, and pillars built separately from the floors to avoid vibrations. The physical lecture room is adjacent to the storeroom, where most of the apparatus is stored.

#### **Biological Laboratory.**

The biological laboratory is located on the third floor of University Hall, and has accommodation for about forty students. The laboratory is furnished with work tables, a sink, and the necessary gas fixtures for incubators, sterilizers, etc., also an aquarium for keeping aquatic animals and plants on hand for observation and study. The equipment in apparatus consists of Bausch and Lomb compound microscopes, dissecting microscopes, microtomes, and such other apparatus and chemicals as are needed for practical work in biology. There is a collection of insects, and also apparatus for collecting, drying, preserving, and mounting insects. The

laboratory has a number of skeletons of different animals, and models and charts for teaching plant and animal anatomy.

#### **Laboratories of Geology and Mining Engineering.**

The geological laboratory is provided with aneroid barometers, compasses, hand-levels, pedometers, etc., for field work, two petrographic microscopes, and an excellent equipment of drawing apparatus for the construction of geological sections and topographic maps; also, with apparatus for the construction of relief maps.

There is a well-equipped laboratory for determinative mineralogy, and a room for the preparation of relief maps and other work connected with the department of geology.

#### **Mechanical Engineering Laboratory.**

The laboratory contains the following machinery: One 15-horsepower vertical boiler; one 10-horsepower slide-valve steam engine; one 10-horsepower Hamilton gasoline engine; one 35-horsepower Westinghouse compound steam engine; one 3 x 4 duplex steam pump, and one 60,000-pound Rheile testing machine.

The laboratory is well provided with apparatus for experimental work, including steam calorimeters, engine indicators, and counters, injectors, thermometers, pressure gauges, measuring tanks, feed-water heaters, condensers, etc.

The steam boilers used for heating the University buildings are arranged so as to be available for experimental work, and the shop engine, a Corliss, is also used for purposes of instruction.

**Electrical Laboratories.**

The dynamo laboratory affords excellent facilities for experimental work with practical machinery. It is located in the east end of the basement of Engineering Hall.

The power is supplied by a 30-horsepower, vertical type, double cylinder, gasoline engine. A 60-cell, 300 ampere-hour storage battery supplies current for experiments in which an absolutely steady power is desired.

There are direct current dynamos and motors, of the constant current and constant potential types. Single, two and three phase alternators supply current at various voltages and frequencies. There are transformers, converters, synchronous and induction motors, with a liberal supply of measuring instruments for use with the various machines.

The senior laboratory is located on the first floor of Engineering Hall, and is supplied with direct current at 110, 220 and 500 volts. Alternate current, single phase at 50, 100 or 200 volts and 60 cycles. Two phase, 60 cycle at 110 or 220. Three phase at 110 or 220 volts, with a frequency of 60 to 133 cycles per second. A high tension testing transformer supplies current at any voltage up to 120,000 volts for testing of insulators, while standard cells, a Kelvin balance and a potentiometer furnish means for calibrating the laboratory measuring instruments.

The equipment enables students to carry on experimental work of a very wide range and to obtain proficiency in operating and testing electrical machinery.

Students are also permitted to inspect the plant of the Fayetteville Electric Light & Power Company, and

to take measurements and make tests on it. Their primary mains supply our laboratory with alternate current at 60 cycles and 2,000 volts.

The photometric laboratory, which also serves as a photographic and X-ray dark room, is supplied with a standard photometer bar, Lummer-Brodhun screen and Amylacetate lamp. It is connected by cable with the switch-boards in the storage battery room and in the dynamo room.

#### **Civil Engineering Laboratory and Equipment.**

The instrument laboratory for this department is located on the first floor of Engineering Hall, and is provided with all the necessary instruments for work in land, railroad and city surveying and office work. The equipment of field instruments has been selected so as to afford students the opportunity of becoming familiar with the instruments of the different manufacturers. Among the instruments there are a number of engineers' transits and Y levels, theodolites, transit with solar attachment, compasses, hand levels, standard and ordinary steel tapes, plane tables, sextant, aneroid and mercurial barometers, etc. An equipment for practical astronomy has been added, consisting of a large alt-azimuth, reading to seconds by levels and micrometers; a sidereal clock with break-circuit attachment; and a chronograph reading to tenths of seconds.

#### **Cement Laboratory.**

The laboratory for cement and hydraulic work is situated in the northwest corner of the basement in Engineering Hall, and occupies a well-lighted room having a floor space of 2,450 square feet. It has cement



floor with floor drains to facilitate work in experimental hydraulics, and is provided with piers built up from the ground for use with delicate instruments.

The equipment for the purpose of testing the strength of mortars and cement, includes one 2,000-pound tensile testing machine, one 1,000-pound automatic machine, Vicat's and Gilmore's needles, brass molds for briquettes, compression and transverse test pieces, storage tanks, sieves, steaming apparatus for blowing tests, apparatus for accelerated tests, specific gravity, etc.

A 4,000-pound tensile machine for testing steel, and a 5,000-pound machine for testing transverse strength of bars, etc., have recently been added to the equipment. The laboratory also contains a large foundry rattler and other equipment for testing stone and brick for paving purposes.

For work in hydraulics there are weir tanks, weir plates, water meters, water wheels, turbines, etc.

The laboratory is provided also with a complete blue-printing outfit, consisting of printing frames, washing tanks, etc.

#### **SHOPS.**

The machine shop contains a Corliss engine, which runs the machinery in the whole building, a large iron planer, a shaper, four lathes of different sizes and makes, drill press, two grinding machines, milling machine, and a good supply of hand tools, benches and materials.

The forge shop contains eight Buffalo forges with down draft which takes the smoke away through underground pipes, thus avoiding the smoke and dirt of the ordinary blacksmith shop. It also contains a shearing and a punching machine, eight anvils of different weights, and all the necessary blacksmith tools for the eight forges.



The wood shop contains one buzz planer, one large cylinder planer, circular saw, band saw, mortising and boring machine, five smaller lathes, one 18-inch pattern-maker's lathe, and twenty-six benches, each equipped with a complete set of carpenter's tools.

The foundry contains one Colliau cupola with a capacity of one and one-half tons of iron per hour, one brass furnace of 150 pounds capacity, a Buffalo pressure blower, and a coke oven.

The boiler room contains three 70-horsepower boilers, feed pump, injectors, measuring tanks, etc.

The various departments of the shop building afford facilities for giving practical instruction to fifty students at one time.

Among the facilities for instruction in engineering contained in the equipment of the mechanical department in addition to the shop equipment may be mentioned: A Dean steam pump with air chamber, water and steam cylinders, and valve chambers sectioned, so that a student may see the working parts; a Cameron steam pump with a steam cylinder sectioned, showing the valve motion; a Knowles pump in full working order; a Blake steam pump in section; sections of injectors; a model of Stevenson's link motion; and a collection of samples of manufactured articles, such as steam pipe coverings, leather beltings, lubricating oils, etc.

#### MECHANICAL ENGINEERING DRAWING ROOM.

The equipment includes the usual tables and stools; and among the special apparatus and instruments may be mentioned the planimeter, odontograph, slide rule, etc. A blue-print room contains complete facilities for the details of the blue-print process. One room is provided

with photographic facilities, which will be used to prepare lantern slides and prints illustrating various branches of engineering.

#### PHYSICAL CULTURE ROOM.

A large room on the north wing of University Hall is set apart for the use of the department of physical culture. This room has been furnished as far as means were available with the equipment necessary for systematic physical training.

#### THE ARMORY

The armory is a large well-lighted room, sixty by eighty feet, occupying the entire basement of the north wing of University Hall. It is substantially fitted up with arm racks, compartments for equipments, and other conveniences. Two adjacent rooms are assigned to the military department, and are used as band room and storeroom.

The equipment of the department consists of 300 Springfield cadet rifles, of the same model as those used at the United States Military Academy at West Point, 300 sets of infantry equipments, twenty-seven cadet swords (West Point Pattern), national colors, flags, signal equipment, ammunition, etc., and a superior set of band instruments.

The arms and equipments are furnished the University by the general government. The other equipments have been purchased by the University and belong to the military department. The equipment is sufficient for a battalion of 400 cadets.

#### THE MUSEUM.

The museum occupies the fourth floor of the south wing of University Hall. Large additions have been

made to its equipment with a view to facilitate instruction in geology and biology, and also to make it of increased interest to the visiting public. That portion of the collection suitable for display is arranged in glass cases, while the working collection is in drawers. Four sloping-top cases with drawers beneath afford space for several thousand specimens.

*Relief Maps.* For illustration in geology and general interest to the public, there have been placed in the museum the following relief maps: geological relief maps of the State of Arkansas, Colorado Cañon, central Tennessee and the United States; a convex relief map of the United States on a section of a globe sixteen feet in diameter; a relief map of Carmel Bay, California; Ice Spring Craters, Utah; Yosemite Valley, Palestine, Mount Vesuvius, the State of California, and San Francisco Peninsula. Other maps are in preparation at the University.

*The Mineral Collection.* The mineral collection contains about 2,000 specimens, representing the different mineral groups. Many of these specimens are displayed in cases.

*The Petrographic Collection.* The most valuable part of this collection consists of the series furnished by the United States geological survey, representing sedimentary, igneous and metamorphic rocks. Besides this, there is a valuable collection of building and other stones from different parts of the country.

*Paleontological Collection.* There is a large collection of fossils in the museum, but as they have not yet been arranged and catalogued, the number of specimens cannot be even estimated.

*The Major Earle Collection.* Major F. R. Earle has deposited in the museum his private collection of minerals and fossils. The collection was formerly in Cane Hill College.

*The Zoological and Botanical Collection.* This collection consists of 200 birds and mammals, representing eighty species; 200 reptiles and amphibians, representing forty species; 1,500 fishes, representing 350 species; 1,000 insects and other invertebrates, representing 200 species; several skeletons.

Donations to the museum will be gratefully acknowledged, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered and destroyed through lack of care or improper handling. The museum is now prepared to receive collections on deposit, and to preserve and to display them under the owner's name until called for.

While the museum is most important on account of its educational value, it at the same time serves an important purpose in representing the resources of this State.

#### ATHLETIC FIELD.

For the accommodation of the University football and baseball teams and spectators there is an excellent athletic field with a covered grandstand.

## **Admission to the College.**

### **\*GENERAL CONDITIONS OF ADMISSION.**

Candidates for admission are urged to be present on the opening day of the session. Admission at a later date is not refused, but it is attended with greater or less inconvenience.

Students on their arrival at Fayetteville should report promptly to the president. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

Applicants should present certificates of honorable discharge from the school last attended, or furnish other testimonials of good moral character.

Entrance examinations will be required of all students entering the University, except those who bring certificates from accredited preparatory schools or from other reputable colleges or universities. For the time at which these examinations will be held, see page 57.

### **ADMISSION TO THE FRESHMAN CLASS.**

The requirements for admission to the Freshman class consist partly of constants, or required subjects, and partly of electives. At present a student must present for admission to the B. A., B. S., and Normal courses thirty-one credits; to the engineering courses, twenty-four credits. One credit is regarded as the equivalent of one recitation of sixty minutes, or two recitations of thirty minutes each, in a study for a school year of thirty-six weeks. Below will be found a detailed statement of the requirements for admission to the different courses:

\*For terms of admission to the preparatory department see page 64

**FOR THE B. A., B. S., AND NORMAL COURSES.****Required:**

English, 8 credits.

Algebra, 5 credits.

Plane Geometry, 4 credits.

United States History, 3 credits.

General History, or Greek and Roman History, 3 credits.

Total, 23 credits.

Required in addition, 8 credits selected from the following groups:

**GROUP A.**

Latin, 8 credits.

Greek, 8 credits.

French, 8 credits.

German, 8 credits.

**GROUP B.**

Physical Geography, 2 credits

Physiology, 2 credits.

Botany, 2 credits.

Zoology, 2 credits.

Physics, 2 credits.

Chemistry, 2 credits.

English History, 2 credits.

Civil Government, 2 credits.

Bookkeeping, 2 credits.

Freehand Drawing, 2 credits.

Manual Training, 2 credits.

Mechanical Drawing, 2 credits.

Candidates for the B. A. degree will be required to present eight credits from group A, all in one language.

Candidates for the B. S. degree, or for the Normal course, will be required to present eight credits selected from group A or B, or both.

**FOR THE ENGINEERING COURSES.****Required:**

English, 8 credits.

Algebra, 5 credits.

Plane Geometry, 4 credits.

United States History, 3 credits.

Total, 20 credits.

Required in addition, 4 credits selected from any one of the subjects in A or any two in B.

## ENTRANCE EXAMINATION SUBJECTS.

The following is a statement of the work in the different subjects, both required and elective, upon which the college entrance examinations will be based:

**English.***Eight Credits.*

I. *Composition.* The candidate will be required to write a composition upon one of several topics, drawn in 1905 from the following works:

Shakspeare's *Merchant of Venice* and *Julius Caesar*; *The Sir Roger de Coverley Papers* in the *Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

In 1906, 1907, and 1908 the topics for composition will be drawn from the following works:

Shakspeare's *Merchant of Venice* and *Macbeth*; *The Sir Roger de Coverley Papers* in the *Spectator*; Irving's *Life of Goldsmith*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe* and *Lady of the Lake*; Tennyson's *Gareth and Lynett*, *Lancelot and Elaine*, and *Passing of Arthur*; Lowell's *Vision of Sir Launfal*; Eliot's *Silas Marner*.

II. *Careful Study.* A certain number of books will be prescribed for careful study. This part of the examination will be upon subject-matter, literary form, and logical structure, and will also test the candidate's ability to express his knowledge clearly and accurately. The books prescribed for this part of the examination in 1905 are:

Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1906, 1907, and 1908 the books prescribed for this part of the examination are:

Shakspeare's *Julius Caesar*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Addison*, and *Essay on Boswell's Life of Johnson*.

The candidate is expected to read intelligently all the books mentioned in I. He should read them as he reads other books;



he is expected, not to know them minutely, but to have freshly in mind their most important parts. In every case knowledge of the book will be regarded as less important than ability to write English. As additional evidence of preparation, the candidate may present an exercise-book, properly certified by his instructor, containing compositions or other written work.

While there is no formal examination in grammar or rhetoric, no candidate will be accepted in English, whose work is seriously defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

In connection with the reading and study of the prescribed books, parallel or subsidiary reading should be encouraged, and *a considerable amount of English poetry should be committed to memory.*

**Algebra.**

*Five Credits.*

To simultaneous quadratic equations, with special attention to factoring, the theory of exponents, and radicals.

**Plane Geometry.**

*Four Credits.*

All of plane geometry will be required for admission to the Freshman class.

**United States History.**

*Three Credits.*

The completion of Montgomery's Leading Facts or an equivalent.

**General History.**

*Three Credits.*

The completion of Meyers's General History or an equivalent

**History of Greece and Rome.**

*Three Credits.*

The completion of Meyers's History of Greece, and Meyers's History of Rome, or equivalent.

**English History.**

*Two Credits.*

The completion of some good History of England, like Montgomery's or Larned's.

**Latin.**

*Four Credits.*

(a) First Latin Book complete; Text-book: Collar & Daniell, Bennett, or an equivalent.

(b) Caesar and prose composition. Four books of Caesar, with twenty-five lessons in Bennett's Latin Composition, or the equivalent.

**Greek.***Four Credits.*

(a) The completion of White's Beginner's Greek, or an equivalent.

(b) Three books of Xenophon's Anabasis, with the whole of Collar & Daniell's Greek Prose Composition.

**Elementary German.***Four Credits.*

The examination will be suited to the proficiency of those who have had the equivalent of German 1 (see page 95 of this catalogue), and will test (a) the candidate's knowledge of the rudiments of German grammar; (b) ability to read easy prose at sight, and (c) to translate simple English sentences into German. The candidate should have read two hundred pages of easy prose.

**Advanced German.***Four Credits.*

The examination will be suited to the proficiency of those who have had the equivalent of German 2 (see page 95 of this catalogue), and will test the candidate's ability to read (a) modern German prose and poetry at sight, and (b) to translate easy English narrative into German. The candidate should have read three hundred and seventy pages of the works of Riehl, Freytag, Heine, Lessing, Goethe, and Schiller, and thirty pages of lyrics and ballads.

**Elementary French.***Four Credits.*

The examination will be suited to the proficiency of those who have had the equivalent of French 1 (see page 96 of this catalogue), and will include (a) the translation at sight of ordinary nineteenth century prose, (b) the translation from English into French of sentences to test the candidate's familiarity with elementary grammar. The candidate should have read three hundred pages of simple prose.

**Advanced French.***Four Credits.*

The examination will be suited to the proficiency of those who have had the equivalent of French 2 (see page 96 of this catalogue), and will test the candidate's ability (a) to translate standard French prose and poetry at sight, and (b) to turn easy English prose into French. The candidate should have read six hundred pages in the works of such authors as Daudet, Loti, Sandeau, Corneille, Racine, and Molière.

**Chemistry.***Two Credits.*

Remsen's Chemistry (Elementary Course), Freer's Elements of Chemistry, or Hessler & Smith's Essentials of Chemistry, or an equivalent; sufficient apparatus for the teacher to perform all the experiments.

**Physics.***Two Credits.*

Gage's Elements of Physics, Appleton's School Physics, or Hall & Bergen's Physics, or an equivalent; sufficient apparatus for the teacher to perform all the experiments.

**Physical Geography.***Two Credits.*

Davis's Physical Geography, or Gilbert & Brigham's Physical Geography, or an equivalent.

**Physiology.***Two Credits.*

Martin's Human Body, elementary course, or an equivalent.

**Botany.***Two Credits.*

Gray's Lessons in Botany and Vegetable Physiology, or an equivalent.

**Zoology.***Two Credits.*

Packard's Zoology, elementary course, and Boyer's Laboratory Guide, or an equivalent.

**Civil Government.***Two Credits.*

McLeary's Civil Government, and Arkansas and the Nation, or an equivalent.

**Bookkeeping.***Two Credits.*

Credits in bookkeeping will be given upon the certificate of the instructor stating the amount of work done, when accompanied by a complete set of practice books in double entry, satisfactorily written up.

**Free-Hand Drawing.***Two Credits.*

Drawings from models and machine parts, or credit may be given on good art drawings.

**Shop Work.***Two Credits.*

Credits in manual training, carpentry, machine shop, forge shop or foundry will be accepted.

**ORDER OF EXAMINATIONS FOR ADMISSION IN 1905.**

*Wednesday, September 20.* —9 a. m., registration of students; 1 to 3 p. m., Geometry.

*Thursday, September 21.* —1 to 4 p. m., Algebra.

*Friday, September 22.* —1 to 4 p. m., Latin.

*Saturday, September 23.* —9 a. m. to 12 m., English Composition and Literature; 1 to 2:30 p. m., United States History; 2:30 to 4 p. m., General History.

The order of examinations in other subjects will be announced at the opening of the University.

**EXAMINATIONS AT PLACES OTHER THAN FAYETTEVILLE.**

Students living at a distance from the University may obtain special examinations near their homes, if applied for in due time before the beginning of each session. The questions will be sent on application to the principal of any school, or to any county examiner. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his endorsement that the examination was properly conducted.

**ADMISSION BY CERTIFICATE.**

The graduates of accredited schools are admitted to the Freshman class in the University without examination, provided, in all cases, certificates from the principal of the school attended be presented, containing specific statements of the kind and extent of work done in the studies in which credits are desired. Blank forms for such certificates will be furnished by the University. Students from schools regularly accredited to other reputable colleges and universities will be admitted to the Freshman class without examination, *provided* they present evidence that such schools are duly accredited

and that they have completed the work required for admission to the Freshman class of this University in the courses which they desire to take.

A student who presents a certificate of scholarship from a high school, academy, or college not on the list of accredited schools, is required to take such examinations as may be prescribed. The result of such examinations, together with the certificates, will be passed on and proper credit allowed by the professors of the departments which such student proposes to enter.

#### **ADMISSION TO ADVANCED STANDING.**

Candidates for admission to classes in advance of the Freshman will be required to pass satisfactory examinations in the subject previously pursued by the class which they propose to enter. But such candidates coming from colleges or universities of good standing, may, on the presentation of the proper certificates as to the studies pursued, be admitted provisionally to such standing and upon such terms as the faculty may deem equitable in each case.

#### **ACCREDITED SCHOOLS.**

Any school desiring accredited relations with the University should make application to the accredited school committee. The application should state clearly the text-books used, the length of the school term and of recitation periods, equipments such as library and scientific apparatus, the names of teachers doing high school work, with their qualifications as shown by education and experience. When this information is received, the University will, if it is deemed best, send an officer of the institution or some other competent person to inspect the school; and from the data secured

from all sources the University will decide whether or not the school shall be accredited. But as the University has neither funds nor an officer set apart for this purpose, delays may occur in visitation; the authorities, however, will be as prompt in the matter as possible.

The principals of accredited schools should report annually all changes in course of study and teaching force. The University may visit an accredited school or may call for information at any time. Failure to keep the University informed regarding the school may be the occasion of dropping the same from the list. To prepare for the Freshman class the course of study should not be less than three years of thirty-six weeks each, based on an elementary course of seven or eight years. The University looks with distrust upon pretentious schools; and, if the course of study announced by a school applying for accredited relations is more than the teaching force can well do, that fact will prejudice the cause of the school.

#### LIST OF ACCREDITED SCHOOLS.

Below is given a list of schools already accredited. New names are added from time to time. No effort is made in the list given below to classify the schools. Some of them do more work than is required for entrance, while others fall short of meeting entrance conditions in one or two subjects. A record is kept by the University of the subjects in which each school is accredited.

SCHOOL.	PRINCIPAL.
Amity High School.....	S. M. Samson.
Argenta High School.....	C. P. Baker.
Arkansas Cumberland College . . .	Edwin H. Tiles.
Arkansas Military Academy... .	R. C. Hall.
Batesville Public Schools.....	I. C. Gibson.



SCHOOL.	PRINCIPAL.
Bellefonte High School.....	W. D. Jeter.
Bentonville Academy.....	E. E. Bagwell.
Camden High School.....	H. H. Harper.
Clarendon High School.....	J. McCullough
Corning High School.....	W. W. Henry.
El Dorado High School.....	A. H. Abbott.
Eureka Springs High School.....	C. S. Barnett.
Fordyce Training School.....	M. E. Holderness
Fort Smith High School.....	H. C. Morrison.
Green Forest Academy.....	
Hamburg High School.....	J. R. McChesney
Harrison High School.....	C. L. Scott.
Helena High School.....	S. H. Spragins
Hinemon University High School...	J. W. Shewmake
Hope High School.....	D. F. Paisley.
Hot Springs High School.....	G. B. Cook
Little Rock High School.....	H. Gates.
Lonoke High School.....	A. J. Meadors
Malvern High School.....	R. H. Freeland
Marianna High School.....	J. H. Andrews.
Morrilton High School.....	C. L. O'Daniel
Mountain Home Academy.....	L. A. Morton
Newport High School.....	G. R. Hopkins
Paris Academy.....	G. S. Minmier.
Paris (Tex.) High School.....	J. P. Downer.
Pine Bluff High School.....	J. H. Thatch.
Prairie Grove High School.....	J. H. Caldwell.
Southwestern Academy, Magnolia...	S. H. Lucas.
Springdale High School.....	M. F. Croxdale.
Stephens High School.....	J. P. Womack.
Stuttgart High School.....	G. G. Sampson
Texarkana High School.....	W. S. Horton.
Thompson's Classical Institute, Para- gould.....	R. S. Thompson.
Van Buren High School.....	A. V. Hamilton
Western Military Academy, Upper Alton, Ill.....	A. M. Jackson,



## GENERAL INFORMATION.

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### SELECTION OF COURSES OF STUDY.

Students are allowed all reasonable freedom in choosing their courses of study. But they are required to pursue their studies in the order prescribed, and, when candidates for a degree, to complete, as a condition of graduation, all the subjects in the course leading to such degree. Changes in the course of study selected are discouraged, but for sufficient reasons are allowed if made within three weeks after admission; subsequently no such change can be made during the session except by the express permission of the faculty.

### NUMBER OF RECITATIONS.

Not less than twelve nor more than sixteen recitations or their equivalent per week, exclusive of military science and tactics, may be taken by B. A. and B. S. students, except by permission of the faculty. These conditions apply to engineering students, except that they may have not more than eighteen recitations a week. Two hours of laboratory, shop or farm work, drawing or sight reading, are counted equivalent to one recitation. If fewer than twelve recitations or their equivalent per week are specified in any course, studies must be elected to make up the deficiency.

### CLASSIFICATION OF STUDENTS.

The satisfactory completion of the work of a class as attested by daily recitations and examinations is the condition of enrollment in a higher class. Some margin, however, is allowed for making up studies in arrears. But more than six hours per week required for such

studies or more than six hours per week omitted from the studies of a given class prevent enrollment therein, except that in the engineering courses the number in both cases may be as many as eight. No student who has more than six hours per week of unfinished preparatory work can be classified as Freshman.

#### **SPECIAL STUDENTS.**

1. Students are advised to pursue, in all cases in which it is practicable, some one of the regular courses leading to a degree. The number of these courses and the liberal provision for electives allow sufficient play for individual preference in the selection of subjects required for a liberal and well rounded education.

2. Students who are not candidates for a degree, but who have completed all the studies below the Freshman class, may elect a special course of study under the supervision of the classification committee and with the approval of the professors in charge of the subjects chosen.

3. Persons not under twenty-one years of age may elect a special course of study under the direction of the faculty, provided they show by examination or otherwise that they are qualified to pursue profitably the studies which they propose to take up.

4. Students in special courses are subject to the same regulations and to the same examinations in the studies pursued as all other undergraduate students.

#### **MID-YEAR AND FINAL EXAMINATIONS.**

1. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations and of the examinations, and are divided into four groups, as follows:

Excellent (E); Good (G); Fair (F); Poor (P). A grade not lower than F is required for a "pass," which is the equivalent of about 75 per cent. At the end of each term a report is made to the parent or guardian of each student showing his progress, general conduct, etc.

2. If a student has failed in any study, he may nevertheless be allowed to take up the next study in advance, provided he be deemed by the professor in charge of the department to which the study belongs not incompetent to pursue it; but he will be required to pass a satisfactory examination in the study in which he failed, or take it up with the next class.

3. If a student has proved competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.

#### **APPOINTMENT OF BENEFICIARIES.**

Beneficiary appointments entitle the holders to free tuition. Such an appointment may be obtained from the county judge of the county in which the student resides, or from the president on arrival at the University. The total number of beneficiaries allowed to the state is 1,000, a number that is still in excess of the number of holders of these appointments.

#### **EXPENSES.**

It is the object of the University to give the best possible education at the lowest possible cost. Tuition is free to all students. A matriculation fee of five dollars is charged all candidates for admission. The following estimates are taken from the actual expenses of students for the session of 1901-1902:

	Low.	Medium.	Liberal.
Clothes, including uniform ..	\$ 20 00	\$ 25 00	\$ 45 00
Board, laundry, etc.....	95 00	112 00	135 00
Books, instruments, etc.....	10 00	15 00	15 00
Incidentals.....	15 00	25 00	35 00
Matriculation Fee.....	5 00	5 00	5 00
	<hr/> \$145 00	<hr/> \$182 00	<hr/> \$235 00

Fees are payable in advance. Board bills are payable monthly in advance.

A diploma fee of five dollars is charged for all graduates. All dues are to be paid or satisfactorily adjusted before diplomas are conferred.

#### STUDENT LABOR.

A large part of the student body work during vacant hours to meet part of their expenses.

The general assembly has established a student labor fund, which provides work for deserving young men who need help to meet their college expenses. Considerable manual labor is necessary to carry on the various departments of the University, and students who desire to work are employed when practicable and paid at the rate of ten cents per hour. The requests for work always exceed the amount of money appropriated, and the University makes no promises to furnish employment for wages to all who apply.

#### BOARD FOR YOUNG MEN.

Rooms in the University dormitories are free, but occupants provide their furniture, fuel, and lights. Students leaving the University frequently sell their furniture at a small reduction. If there are not rooms enough for all, preference is given to Arkansas students. An officer of the University is in charge of the building, and the rooms are inspected by the faculty whenever it is deemed necessary.

Students boarding elsewhere are under the supervision of the president of the University, and are allowed to board only at places approved by him. No student is allowed to change his boarding place without the consent of the president.

NOTE.—The reception committee of the Y. M. C. A. will meet all trains and assist the incoming students in finding eligible boarding places.

#### BOARD FOR YOUNG WOMEN.

Sufficient funds have not yet been secured to provide a dormitory for young women, but all necessary assistance is rendered them in finding homes in private families in the town. Parents, therefore, who send a daughter to the University, should place her under the control of the family with whom she boards, subject to the general supervision of the president of the University.

#### ABSENCES AND WITHDRAWALS.

Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son at any time, without reason assigned, is recognized, but without such withdrawal the student cannot be relieved of the obligation to attend to University duties. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the president permits them, in cases where propriety or urgent necessity seems to make them unavoidable, it is held to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the president stating their wishes. No honorable discharge will be given to a student under age who is unable

to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian to his withdrawal from the University.

#### **SALE OF ARDENT SPIRITS PROHIBITED.**

By an act of the general assembly of the state of Arkansas, approved March 6, 1875, it is unlawful for any person to sell or give away any vinous or ardent spirits within three miles of the University of Arkansas, unless they are prescribed by a regular practicing physician for medicinal purposes.

### **University Organizations.**

#### **YOUNG MEN'S CHRISTIAN ASSOCIATION.**

*Object.* The Young Men's Christian Association is the largest student organization in the University. It stands for higher spiritual life among the members, and for united effort to help others in the attempt to live consistent Christian lives.

*Work.* The distinctive work of the association consists in promoting individual study of the Bible by means of small classes under student leaders, in arranging various Bible lecture courses, in maintaining a weekly prayer service, held on Wednesday night from 6:45 to 7:30, in assisting, through some of its members, the work of the city mission, and in inviting eminent Christian workers to address the students on religious matters.

*Bible Study.* The Young Men's Christian Association offers the following courses in Bible study, open to



all students: (1) Harmony of the Gospels, and Studies in the Life of Christ; (2) Studies in the Life of Paul; (3) The Gospel According to St. Mark. The two courses last named are conducted by student leaders. Efforts are being made to establish classes in the large boarding houses out in town.

*Y. M. C. A. Equipment.* A room in University Hall, No. 17, is now being used by the association for committee work and incidental business. One of the literary society halls is used for the public services. A movement is on foot to furnish a suite of rooms for association work. These rooms, with the many conveniences they will have, will greatly facilitate the work of the association.

*Membership.* The membership of the association consists of two classes, active and associate members; any member of an evangelical church, who is in good standing, may become an active member of the association; any young man of good moral character may become an associate member upon payment of the annual dues.

*Indorsement.* The trustees and the faculty of the University heartily commend the work of the association, and it is earnestly desired that every parent or guardian see to it that the student under his care be encouraged to join the association as soon as he reaches the University.

#### YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

The Young Women's Christian Association, founded September 20, 1904, is an organization composed of sixty-two young women, seeking to develop their Christian character, and to win others for Christ.



Prayer meetings are held Saturday evenings, and the regular religious services Sunday afternoons. Fifty girls are enrolled in Bible and missionary study classes.

The association gives several entertainments during the year, endeavoring through these to arouse a spirit of friendship among all the young women. The members of the association will gladly assist in any way young women just entering the University.

#### **LITERARY SOCIETIES.**

There are three literary societies, the Mathetian, founded in 1873; the Garland, founded in 1886; and the Periclean, founded in 1901. The Mathetian society is composed of collegiate students of both sexes; the Garland and the Periclean societies, of male collegiate and preparatory students. The weekly meetings of the three societies afford excellent opportunities for improvement in composition, declamation, debate, etc.

#### **THE RESEARCH CLUB.**

The Research Club, composed of University professors and instructors, and members of the experiment station staff, has for its purpose the encouragement of original research work among its members. Meetings are held fortnightly, at which technical papers are read and discussed.

#### **THE ENGINEERING CLUB.**

This organization is composed of teachers and students of the various branches of engineering in the University. Regular meetings are held, at which technical papers are read and discussed, or experiments performed.

**ELECTRICAL ENGINEERING SOCIETY.**

The University of Arkansas Branch of the "American Institute of Electrical Engineers," which was established at the University last year, holds regular meetings on the first and third Tuesdays of each month.

Original papers are read, and advance copies of papers to be presented at the Institute meetings in New York are read and discussed.

**DEUTSCHER VEREIN.**

The Deutscher Verein, organized December 15, 1904, is composed of University teachers and students. Its object is to encourage the use of spoken German and promote the study of German life and literature. Meetings are held fortnightly in private houses.

**ENGLISH CLUB.**

The English Club, founded February 9, 1905, consists of University teachers and advanced students of English. This society is now making a special study of dialect words. Papers relating to different phases of English philology are also read at the meetings, which occur every other Thursday.

**ATHLETIC ASSOCIATION.**

The purpose of this organization is to encourage the development of the physical man.

The association as originally formed consisted of the U. of A. Athletic Club, the U. of A. Tennis Club, the U. of A. Baseball Club, and the U. of A. Football Club; and it is further provided that if any other club, organized by the students of the University for the practice of any sport, game, or exercise, not already represented by one of the members of the association, shall make a written

application for membership in this association, and the said application shall be approved by the governing body of the association, the petitioning club shall become a member of the association, with all the rights and privileges pertaining to such membership.

**Faculty Rules for the Government of Athletics.**

RULE 1. No one shall participate in any sport as a member of a team representing the University, unless he be a *bona fide* student doing full work in a regular or special course as defined in the catalogue.

RULE 2. No person shall be admitted to any athletic contest who receives any gift, remuneration, or pay for his services on the college team.

RULE 3. No student shall be permitted to participate in any athletic contest who is found to be a delinquent in his studies.

RULE 4. The election of managers and captains of all athletic teams shall be subject to the approval of the faculty committee on athletics.

RULE 5. Before every athletic contest in which a University team is to be engaged, the captain of such team shall submit to the chairman of the faculty committee on athletics a list of the players eligible under the rules to participate in said contest. It shall be the duty of the captain to exclude all players from the contest except those so certified.

RULE 6. The faculty committee on athletics shall require each candidate for a team to represent the University to subscribe to a statement that he is eligible under the letter and spirit of the rules adopted by the faculty.

RULE 7. No person having been a member of a college athletic team during any year and having been

in attendance less than one college half year shall be permitted to play on any athletic team thereafter until he shall have been in attendance six consecutive calendar months.

## **Prizes.**

### **THE WILLIAM JENNINGS BRYAN PRIZE.**

A prize fund of \$250 has been bestowed upon the University through the liberality of Hon. W. J. Bryan, of Nebraska, and a prize named in his honor and consisting of the annual income of this fund will be offered each year, provided productions worthy of its bestowal be presented.

The prize will be awarded for the best essay on some topic relating to the problems of government, and the subjects for competition will be selected in the alternate years by the department of economics and sociology, and the department of history. The contest will be open to students who have junior or senior standing, more than half of whose work has been of the grade G, and to special students in the collegiate department who have thirty-two hours' credit of a similar grade.

The subject for the year 1905-1906 will be announced in September, 1905. Further details of the plans of competition may be obtained from the professor of history and political science. The competitive essay must be submitted by the first of May, 1906.

### **THE JOHNSON PRIZE.**

Professor W. S. Johnson offers a valuable loving cup to be competed for in an oratorical contest open to the members of the three literary societies.

**BROUGH DEBATING MEDAL.**

Professor C. H. Brough, of the department of economics and sociology, offers a medal of the value of \$20, or \$20 in money, as a prize for excellence in debate, to be contested for by two representatives from each of the three literary societies of the University. Two debates are held during the session; one a formal, in which the speeches are prepared, and valued at 60 per cent; the other, an informal, in which the speeches are impromptu, and valued at 40 per cent. These debates are designed to train students of the University in the art of forensic speaking, and to promote a friendly rivalry between the literary societies.

**PRIZE IN THE GARLAND SOCIETY.**

Professor G. A. Cole offers the members of the Garland Society a prize for the greatest improvement in debate.

**PRIZE IN THE PERICLEAN SOCIETY.**

Miss Naomi Josephine Williams, instructor in the preparatory school, offers a prize for the best oration written and delivered by a member of the Periclean Society.

**THE EDISON MEDAL.**

The Edison Medal Association was founded by the friends and admirers of the great inventor, and in the language of the deed of gift, "was organized for the purpose of properly recounting and celebrating the achievements of a quarter of a century in the art of electric lighting, with which the name of Thomas Alva Edison is imperishably identified," and this purpose was given effect by the "establishment of an Edison medal, which

should, during the centuries to come, serve as an honorable incentive to the youth of America to maintain by their works the high standard of accomplishment set by the illustrious man whose name and features shall live while human intelligence continues to inhabit the world."

This medal is awarded each year by a committee of the American Institute of Electrical Engineers for the best thesis or record of research on theoretical or applied electricity or magnetism. Theses or records of research may be submitted by a graduating student from any college or university in the United States or Canada, whose course of study includes the branch of electrical engineering.

### Chapel Exercises.

Religious exercises are held in the University chapel every morning at twenty minutes past eight. Students are required to attend.

### Churches.

The churches of Fayetteville cordially welcome the students to their Sunday schools and various meetings for prayer and religious instruction. Many students are actively engaged in the work of the different church societies and guilds.

The pastors of the city are actively interested in the spiritual welfare of the students. There follows a list of the local churches and pastors, with the addresses of the latter:

*Baptist.* Rev. J. E. Denham, 16 N. Locust Street.

*Christian (First)* —Rev. N. M. Ragland, 215 E. Dickson Street.

*Christian (Second).* —Rev. John Hinds, Hill Street.

*Cumberland Presbyterian.* —Rev. R. Thomsen, 308 St. Charles Street.

*Methodist Episcopal*.—Rev. J. F. Ross, cor. W. Rock and School Streets.

*Methodist Episcopal, South*.—Rev. P. C. Fletcher, 309 Highland Avenue.

*Methodist Protestant*.—Rev. J. H. Kilgore, Leverett Street

*Presbyterian*.—Rev. J. F. Lawson, 4 E. Lafayette Avenue.

*Protestant Episcopal*.—Rev. Dr. Leman, 354 College Avenue.

*Roman Catholic*.—Father Patrick H. Boyle, 354 N. Willow Street.

*Seventh Day Adventist*.—

## Degrees.

The following degrees are conferred by the University:

For undergraduate work:

Bachelor of Arts (B. A.).

Bachelor of Science (B. S.).

Bachelor of Civil Engineering (B. C. E.).

Bachelor of Mechanical Engineering (B. M. E.).

Bachelor of Electrical Engineering (B. E. E.).

Bachelor of Mining Engineering (B. Mi. E.).

Bachelor of Chemical Engineering (B. Ch. E.).

Bachelor of Science in Chemistry (B. S. C.).

Bachelor of Scientific Agriculture (B. S. A.).

Bachelor of Music (B. Mus.).

For graduate work:

Master of Arts (M. A.).

Master of Science (M. S.).

Mechanical Engineer (M. E.).

Civil Engineer (C. E.).

Electrical Engineer (E. E.).

Chemical Engineer (Ch. E.).

All the courses leading to the different bachelors' degrees are based on four years of collegiate work. The B. A. and B. S. courses are designed to give the student liberal culture; while the engineering courses are technical. The B. A. and B. S. courses are almost entirely



elective, certain safeguards and restrictions being thrown around the student's choice of electives; the technical courses necessarily consist principally of prescribed work.

For the announcements of the several collegiate departments, see pp. 88 to 133.

For the B. Mus. course, see pp. 146-47 of the announcement of the Conservatory of Music and Art.

## Courses of Study for the Collegiate Degrees.

### B. A. OR B. S. COURSE.

FRESHMAN	Per- iods	SOPHOMORE.	Per- iods.
English.....	*3	English.....	3
Mathematics.....	3	The Foreign Language pursued in Freshman year.....	3
A Foreign Language.....	3	Some study pursued in Fresh- man year .....	3
Elective.....	6	Elective.....	6
<hr/>			
JUNIOR.	Per- iods.	SENIOR.	Per- iods.
Elective.....	15	Elective.....	15

### Conditions.

1. Sixty points are required for graduation.
2. At or before the beginning of the Junior year the student shall elect a major subject, and 24 periods of the 60 required for graduation shall be subject to the approval of the professor in charge of the major subject. Not more than 18 periods may be taken in any subject, and not more than 36 periods in any group.
3. Candidates for the B. A. degree shall choose their major subject from group I, II, or III, and shall offer not fewer than 9 periods from each of these groups. Not more than 9 periods may be offered from group IV. In the foreign language pursued in the Freshman year the equivalent of two years' work must be offered for admission.

\*NOTE — A period means one recitation per week throughout a college year, or the equivalent in laboratory work.

4. Candidates for the B. S. degree shall choose their major subject from group II. or IV., and shall offer not fewer than 18 periods from one or both of these groups.

5. In the B. A. course the elective work of the Freshman and Sophomore years must include at least 3 periods from each of groups II. and III.

6. In addition to the above mentioned requirements, military science and tactics will be required of male students, or, whenever they are excused, one period per year in other work. One period per year in music, art, elocution, physical culture, or other work, will be required of female students.

#### Groups.

I. Greek, Latin, English, German, French, Spanish, Italian.

II. Mathematics, Astronomy, Chemistry, Physics, Geology, Biology.

III. History, Philosophy, Political Science, Economics, Sociology, Pedagogy.

IV. Mechanical, Civil, Electrical, Chemical, and Mining Engineering, Horticulture, Agriculture.

#### COURSE IN MECHANICAL ENGINEERING FOR THE DEGREE OF B. M. E.\*

FRESHMAN YEAR	Hrs. per week.	SOPHOMORE YEAR	Hrs. per week
Mathematics 1, 2.....	5	Mathematics 4, 5.....	5
English 1.....	3	Chemistry 1.....	3
Physics 1.....	3	Mechanical Drawing M. E. 2b..	2
Mechanical Drawing M. E. 2a	2	Physics 2 or a Language.....	3
Shop Work.....	3	Shop Work.....	3
JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Mathematics 6.....	3	Machine Design M. E. 7.....	4
Machine Design M. E. 3.....	3	Mechanical Laboratory M. E. 8.....	2
Mechanics M. E. 4.....	4	Turbines and Pumps M. E. 9.....	2
Steam Machinery and Gas Engines M. E. 5.....	3	first term.....	2
Mechanical Laboratory M. E. 6.....	2	Electrical Laboratory E. E. 5.....	2
C. E. 1, first term; Physics 2a, second term. ....	2	Electrical Machinery E. E. 7.....	3
		Elective*.....	4
		Thesis, second term.....	4

\*All elective courses are subject to the approval of the professor of mechanical engineering.

COURSE IN CIVIL ENGINEERING FOR THE DEGREE OF B. C. E.

FRESHMAN YEAR.		Hrs. per week.	SOPHOMORE YEAR.		Hrs. per week.
Mathematics 1, 2		5	Mathematics 4, 5		5
Chemistry 1		3	C. E. 2, 3, Surveying		3
English 1		3	English 2, French, German or Spanish 1		3
C. E. 8, Lettering		2	Physics 1		3
C. E. 1a, Drawing		2	C. E. 1, Descriptive Geometry, first term		2
			C. E. 4, Highway Construction second term		1
			Architectural Drawing, second term		1
JUNIOR YEAR		Hrs. per week.	SENIOR YEAR.		Hrs. per week.
Mathematics 6, Calculus		3	C. E. 15, Field Practice		2
M. E. 4, Mechanics and Hy- draulics		4	C. E. 14, Engineering Labora- tory, first term		2
C. E. 5, Railroad Engineering		2	C. E. 11, Sanitary Engineering, first term		2
C. E. 6, Field Practice		2	C. E. 12, Technical Drawing		2
C. E. 8a, Technical Drawing		2	C. E. 13, Waterworks Engineer- ing, second term		3
*Elective		4	C. E. 9, Masonry Construction first term		2
			C. E. 10, Roofs and Bridges		4 & 3
			Geology 5, Blowpipe Analysis, second term		2
			Elective*		3
			Thesis		

\*Electives can be taken only on the approval of the professor.

# **COURSE IN ELECTRICAL ENGINEERING FOR THE DEGREE OF B. E. E.**

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR	Hrs. per week
Mathematics 1, 2, Solid Geom- etry, Trigonometry, Algebra English 1, English Composition Physics 1, General Physics E. E. 3a, Drawing..... M. E. 1d b Shop Work	5 3 3 2 2	Mathematics 4, 5, Analytic Ge- ometry, Calculus, Algebra Chemistry 1, General Chemistry Physics 1a, Precision of Meas- urements..... Physics 1b, Laboratory Work Physics 2, Extension of Course 1 M. E. 1c, e, Shop Work..... C. E. 1, Descriptive Geometry	5 3 1 1 2 2 2
JUNIOR YEAR	Hrs. per week.	SENIOR YEAR	Hrs. per week
Mathematics 6, 9, Calculus, Dif- ferential Equations English 2, or French 1, or Ger- man 1, or Spanish 1 E. E. 7, Dynamo Electric Mach- inery Physics 2a, Laboratory Work E. E. 3, Technical Drawing M. E. 4, Mechanics and Hy- draulics	3 3 3 2 2 1	E. E. 8, Alternate Current The- ory, and E. E. 9, Polyphase Electric Currents E. E. 6, Electric Laboratory E. E. 4, Technical Drawing E. E. 11, Telegraphy and Tele- phony M. E. 5, Steam Machinery, first term, and Chemistry 14, Electro-Chemistry, second term..... M. E. 6, Mechanical Laboratory, first term; and E. E. 10, Electric Railways, second term..... Elective..... Thesis.....	3 2 2 2 3 2 2

COURSE IN CHEMICAL ENGINEERING FOR THE DEGREE OF B. Ch. E.

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week
Mathematics 1, 2; Solid Geometry, Trigonometry, Algebra, Analytic Geometry	5	Mathematics 4, 5; Algebra, Analytic Geometry, Calculus.	5
Chemistry 1; General Chemistry	3	English 2; Advanced Composition.....	3
English 1, Elementary Composition.....	3	Chemistry 2; Inorganic Chemistry.....	2
M. E. 1b, c, d; Founding, Forging, Pattern Making	3	Chemistry 3a; Elementary Qualitative Analysis.....	3
M. E. 2, Drawing.....	2	Physics 1; Elementary Physics.	3
		Physics 1a; Measurements of Precision, second term.....	1
		M. E. 1e; Iron Working.....	1
JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Mathematics 6; Calculus, first term	3	Chemistry 7a; Advanced Quantitative Analysis.....	3
Chemistry 4; Organic Chemistry	4	Chemistry 8, Theoretical Chemistry.....	2
Chemistry 5; Elementary Quantitative Analysis.....	3	M. E. 5; Steam Machinery	3
M. E. 3, Elementary Machine Design.....	3	E. E. 5; Electrical Laboratory..	2
M. E. 4; Mechanics and Hydraulics	4	C. E. 11; Sanitary Engineering, first term.....	2
Physics 1b; Laboratory Work..	1½	Chemistry 9; Assaying, second term.....	3
Geology 5b; Mineralogy, second term	3	Chemistry 13; Water Analysis, first term.....	3
		Thesis, second term.....	2

## SPECIAL CHEMICAL COURSE FOR THE DEGREE OF B. S. C.

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week.
Mathematics 1; Solid Geometry, Trigonometry, Analytic Geometry.....	3	French 1; Elementary Course...	3
Physics 1; Elementary Physics.	3	English 2; Advanced Composi- tion.....	3
Chemistry 1; Elementary Chem- istry.....	3	German 2; Prose and Poetry...	3
English 1; Elementary Composi- tion.....	3	Chemistry 2; Inorganic Chemis- try.....	2
German 1; Elementary Course...	3	Chemistry 3a; Elementary Qual- itative Analysis.....	3
		Economics 1; Principles of Eco- nomics; first term.....	3
		Chemistry 3b; Advanced Quali- tative Analysis; second term.	3
		Physics 1a; Measurements of Precision; second term.....	1
JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Philosophy 1; Psychology; first term.....	3	Chemistry 7a; Advanced Quan- titative Analysis.....	3
Geology 5b; Mineralogy; second term.....	3	Chemistry 8; Theoretical Chem- istry.....	2
Chemistry 4; Organic Chemistry	4	Biology 4; Bacteriology; first term.....	4
Chemistry 5; Elementary Quan- titative Analysis.....	3	Biology 8; Physiology; second term.....	4
Physics 1b; Laboratory Work...	1½	Geology 7; Economic Geology, first term...	3
German 3a; History of German Literature.....	3	Chemistry 7b; Special Quantita- tive Methods; second term...	3
History 4; State and National Governments.....	3	Chemistry 13; Water Analysis, first term.....	3
		Electrical Engineering 2; Elec- trical Measurements; second term.....	2
		Chemistry 9; Assaying; second term.....	3
		Thesis; first term.....	2

COURSE IN MINING ENGINEERING FOR THE DEGREE OF B. Mi. E.

FRESHMAN YEAR.	Cr.	SOPHOMORE YEAR.	Cr.
Chemistry 1; General Inorganic Chemistry..... Physics 1; Lectures in General Physics..... Mathematics 1, 2; Solid Geometry, Trigonometry, Algebra..... English 1; English Composition..... C. E. 1; Descriptive Geometry, two hours first term..... C. E. 1a; Special Drawing and Applications of Descriptive Geometry, two hours first term and three hours second term.....	3 3 5 3 1 2½	Chemistry 3; Qualitative Analysis..... Physics 1a; Precision of Measurements, two hours first term..... Physics 1b; General Laboratory..... Mathematics 4, 5; Analytical Geometry, Algebra, Calculus..... Geology 2; General Geology..... Geology 5; Crystallography, Mineralogy, and Blowpipe Analysis..... Mining 1; Elementary Study of Mining Methods, two hours second term.....	3 1 1½ 5 3 3 1
JUNIOR YEAR.	Cr.	SENIOR YEAR.	Cr.
Chemistry 2b; Advanced Inorganic, two hours first term..... Chemistry 9; Assaying, three hours second term..... Mathematics 6; Calculus, three hours first term..... C. E. 2, 3; Surveying..... M. E. 4; Mechanics and Hydraulics..... E. E. 12; Direct Current Machinery, three hours first term..... Geology 3; Field Work, two hours second term..... Geology 8; Rocks and Metamorphism, two hours second term..... Mining 2; Details of Mining Operations..... Mining 3; Critical Study of Mining Methods, two hours second term.....	1 1½ 1½ 3 4 1½ 1 1 2 1	Chemistry 5; Quantitative Analysis..... Chemistry 12; Metallurgy, three hours first term..... M. E. 5; Engines and Boilers..... E. E. 5; Electrical Laboratory..... Geology 7; Economic Geology, three hours second term..... Mining 3; Continuation, three hours first part of first term..... Mining 7; Mine Examinations and Reports, three hours last of first term..... Mining 4; Engineering Problems of Mines, three hours first term..... Mining 5; Mine Plant, three hours second term..... Mining 6; Mine Administration, three hours second term..... Mining 8; Ore Dressing.....	3 1½ 3 1 1½ 1 ½ 1½ 1½ 1½ 2



## **Requirements for the Masters' Degrees.**

1. That a bachelor's degree shall have been received from this University or another institution in which the course of study is fully equivalent.

2. That not less than one year intervene between the conferring of the bachelor's and master's degrees.

3. That a course of study in one major and two minor subjects aggregating, with a thesis, sixteen hours per week be pursued in residence at the University for not less than one year. But graduates of this University may do half their work in absence under the direction of the professors in charge of the subjects chosen, provided that residence at the University during the term preceding the final examination for the degree is required.

4. That the major subject covering six hours shall be strictly graduate work, and selected in a department in which all undergraduate work has been previously completed.

5. That the two minor studies aggregating eight hours per week shall be chosen from departments in each of which the candidate has already two years credit, provided that no work credited to the bachelor's degree shall be counted towards the master's degree.

6. That the candidate write a satisfactory thesis in the major subject, the theme of which shall be approved by the head of the department six months before the final examination. For the thesis a credit of two hours shall be given.

7. That the candidate shall hand the thesis to the professor in charge of the major subject on or before the 15th of May. Previous to his final examination the candidate shall be questioned on his thesis by a committee composed of the professors in charge of the major

and minor subjects and a professor of another department, to be designated by the faculty.

### **Requirements for the Degrees of C. E., M. E., E. E., and Ch. E.**

These courses of study are intended to give additional preparation for those students who have finished an undergraduate course in engineering, for some special line of work to which their previous study has led. The student will have all reasonable liberty in selecting such specialties and will be limited only by certain general requirements. He will be required at the beginning of the year to make up the course which he proposes to follow and to present it to the faculty, approved by the instructors concerned. If accepted, it will be subject to change only by the faculty. In general, it is expected that these courses shall comprise one principal subject based on the course already pursued, and two secondary subjects, one or both of which should be closely related to the principal. The graduate course should amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above degrees must be submitted to the faculty for approval before the middle of the second term.

These degrees will also be given to graduates in civil, mechanical, electrical, and chemical engineering who have been in successful practice of their profession for three years, and who have submitted a satisfactory thesis on a subject approved by the faculty.

*Charges.* Graduate students pay ten dollars for matriculation and registration, ten dollars tuition (non-residents, five dollars) at the beginning of each session,

and ten dollars in advance for the final examination. Students who fail to comply with any of these requirements, or who do not each year complete the equivalent to two terms' work in one subject, will be dropped from the rolls. Should such students desire to resume their studies, they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is five dollars in advance in each case.

Graduates attending only undergraduate classes pay the same fee as undergraduates.

Non-resident students have such assistance and instruction in their studies as can be conveniently given by correspondence.

### **Courses of Study Leading to Certificates.**

In pedagogy and mechanical and electrical engineering there are the following courses of study, the completion of which entitles the student to a certificate:

#### **NORMAL COURSE.**

The certificate of Licentiate of Instruction (L. I.) has been established by the board of trustees as a stamp of one's knowledge of educational principles and proficiency in the art of teaching. There are three conditions upon which the certificate of Licentiate of Instruction is granted:

*First.* To those who complete the Sophomore year, leading to the B. A. or B. S. degree, eight hours of which must be elected in the department of pedagogy, subject to the approval of the professor in charge of that department.

*Second.* To those who complete the prescribed course for the state certificate. See page 86.

*Third.* To those candidates for the B. A. and B. S. degrees who elect their major in the department of philosophy and pedagogy.

**Requirements for the State License.**

\*Section 6974 of the Revised Statutes of the State is as follows: "The State superintendent of public instruction shall have power to grant state certificates, which shall be valid for life, unless revoked, to any person in the state who shall pass a thorough examination in all those branches required for granting county certificates, and also in algebra and geometry, physics, rhetoric, mental philosophy, history, Latin, the Constitution of the United States, and of the state of Arkansas, natural history, and the theory and art of teaching."

To meet the provisions of this law, a four years' course has been provided, which includes all the branches on which one is examined for the state certificate, which also leads to the certificate of L. I. (Licentiate of Instruction). As given in the scheme of studies below, the

\*The Superintendent of Public Instruction puts the following construction on this section:

"State licenses are not granted to inexperienced teachers. Applicants for the same must present satisfactory evidence of having taught successfully at least twenty months.

"State licenses are granted, under the law, *only* on approved examinations conducted by the State Superintendent.

"While the law is silent as to the scope of the examination, naming the subjects only, the following outline will give an idea as to the requirements under the present administration: In algebra, natural history (botany, geology, zoology), physics, and general history, the examination will be on such matter as is comprehended in the average high school text-books on these subjects.

"*Latin*.—Grammar and composition; first four books of Caesar; first two books of Virgil; first two orations of Cicero against Catiline, and his essay *De Senectute*—or equivalent readings.

"*Geometry*.—Plane geometry, and first two books of solid geometry including exercises.

"*Rhetoric*.—With special reference to the essentials of English composition.

"*Constitution of the United States and of Arkansas*.—Embracing a study of the origin, subject matter, and civic relations under the same.

"*Theory and Art of Teaching, Mental Philosophy*.—As discussed in works on these subjects.

"Holders of first grade certificates may not be examined in the common school branches. An average of 80 per cent will be required on all subjects. Below 70 per cent on any subject will be considered a failure thereon."

first two years may be done in the high schools or in the preparatory department of the University. The completion of the first two years also entitles one to admission to the Freshman class in the B. A. and B. S. courses.

The hours completed during the third and fourth years are credited on the courses leading to the degrees of B. A. and B. S.

**Course required for the State Certificate.**

FIRST YEAR.		Hrs. per week.	SECOND YEAR.		Hrs. per week.
Arithmetic.....	2		Algebra.....	2	
Algebra.....	3		Plane Geometry.....	4	
English.....	4		English.....	4	
History of United States.....	3		General History.....	3	
Latin.....	4		Latin.....	4	
THIRD YEAR.		Hrs. per week.	FOURTH YEAR.		Hrs. per week.
English, course 1.....	3		English; course 2.....	3	
Latin, course 1.....	3		Physics; course 1.....	3	
Mathematics; course 1; Solid Geometry.....	3		Pedagogy, courses 5, 6, 7, 8.....	5	
Biology; course 1.....	3		Elective.....	4	
Pedagogy; courses 1, 3, 4.....	5				

**MECHANIC ARTS COURSE.**

This course of two or three years, according to the preparation of the student, is designed to meet the wants of two classes of young men:

*First.* Those who are not able to spend the time required for the completion of the four years' course.

*Second.* Those who lack the necessary preparation for admission to the collegiate classes, and do not wish to become candidates for a degree.

Special attention is given to instruction in shop work and drawing, sufficient time being given to the former to enable a student to become familiar with all

its branches, and acquire proficiency in some chosen one. The time spent in the drawing room will enable the student to make and understand the machine drawing.

In the last year the technical instruction is designed to give such an elementary knowledge of mechanics, machine design, and steam machinery, as will enable the student to use and care for machinery intelligently. No diploma is awarded, but a certificate of proficiency will be given on the completion of the course.

**Course Required for Certificate.**

FIRST YEAR.	Hrs. per week	SECOND YEAR.	Hrs. per week.
Mathematics; First Year Pre- paratory	5	Mathematics; Second Year Pre- paratory	5
English; First or Second Year Preparatory	4	M. E. 4a; Mechanics and Hy- draulics	4
Drawing, M. E. 2.	3	M. E. 2; Mechanical Drawing	2
Shop Work	3	Shop Work	6

THIRD YEAR.	Hrs. per week.
M. E. 3, 5a; Machine Design and Steam Machinery.....	5
M. E. 6; Mechanical Laboratory	2
E. E. 12; Electrical Machinery..	3
E. E. 5; Electrical Laboratory	2
Shop Work	4

**\*SHORT COURSE IN ELECTRICAL ENGINEERING.**

This two years' course is designed for students lacking time and preparation for the full course, and is intended especially for those who have had some practical experience in engineering. The work is more elementary than in the long course, embracing only the necessary mathematics, which, with electrical engineering and

\*Candidates for this course should be at least sixteen years old and have a fair knowledge of the common school branches, especially arithmetic.



laboratory work, gives the student sufficient theory, supplemented by practice, in the shortest possible time.

This course prepares students for practical work, such as constructing, operating, superintending, or managing lighting, power, or manufacturing plants. It does not lead to a degree, but a suitable certificate will be given on completion of the work.

FIRST YEAR.	Hrs. per week.	SECOND YEAR.	Hrs. per week.
E. E. 1; Electrical Engineering	5	E. E. 12; Electrical Machinery	3
E. E. 3a; Drawing	2	E. E. 3; Technical Drawing	2
M. E. 1d, b; Shop Work	3	E. E. 5; Electrical Laboratory	2
Mathematics; First Preparatory Algebra	5	M. E. 5a; Steam Engines and Boilers	3
		M. E. 1c, e; Shop Work	3
		Mathematics; Second Prepara- tory Geometry	4

## \* Description of Collegiate Courses.

### ANCIENT LANGUAGES.

J. C. FUTRALL, *Professor.*

#### Latin.

1. CICERO'S ORATIONS AND VIRGIL (3). -An accurate knowledge of the Latin forms is insisted upon; Bennett's Latin Prose Composition throughout the year. *For Freshmen.* M. W. F. 1; M. W. F. 2.

2. CICERO AND LIVY (3). -Cicero's de Amicitia et de Senectute; Livy, Book II. or III. Systematic study of the grammar; exercises in prose composition, based chiefly upon the authors read in class; sight reading; Roman literature. *For Sophomores.* M. W. F. 3.

\*The number to the left of the description of a course is the number of the course; the number to the right is the number of hours per week that the course is given. In general, two hours of laboratory work are considered as the equivalent of one hour of recitation. Thus a course that has two hours per week of recitation work and two hours of laboratory work is a three hour course. Unless the contrary is stated in the description of a course, all courses run throughout the year.



3a. PROSE COMPOSITION (1).—The translation of connected passages of idiomatic English into idiomatic Latin. *Prerequisite: Course 2. W. 4.*

4. HORACE AND TACITUS (2).—Horace, Odes and Epodes; Tacitus, Annals; parallel and sight reading; the metres of Horace. *Prerequisite: Course 2. T. 3; F. 4.*

5. ROMAN POETS (3).—Readings will be taken from Plautus, Terence, Catullus, Horace, Juvenal, and others, and the attention of the student will be directed rather to the literary side of the authors read than to grammatical and syntactical peculiarities. The metres of Plautus and Terence will be carefully studied. Course 5 may be taken twice and counted towards a degree, as the readings will be changed in successive years. *Prerequisite: Courses 3a and 4.*

*Text-books.* Bennett's and Gildersleeve's Grammars; Wilkins's Primer of Roman Literature; Cruttwell's Roman Literature. Any approved edition of the Latin authors may be used, except when certain editions are prescribed. Lexicons: Harper, Lewis, White.

#### Greek.

1. ELEMENTARY COURSE (3).—White's Beginner's Greek Book, with selections for reading. A thorough mastery of the forms and constructions given in this book is required. *For Freshmen. M. T. Th. 4.*

2. XENOPHON AND LYSIAS (4).—This course is intended to familiarize the student with all the ordinary Attic forms and constructions; frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading; Goodwin's Grammar. *For Sophomores. M. W. Th. F. 1.*

3. HOMER AND PLATO (3).—Systematic study of the grammar; prose composition; Greek literature; sight reading; *Prerequisite: Course 2. T. Th. 1; M. 4.*

4. THUCYDIDES AND THE DRAMA (3).—This course will be conducted on the same plan as Latin 5. *Prerequisite: Course 3.*

*Text-books.* Goodwin's Revised Greek Grammar; Goodwin's Greek Moods and Tenses; Pearson's Prose Composition; Higley's Exercises in Greek Composition. Any approved edition of the Greek authors may be used, except when certain editions are prescribed. Liddell and Scott's Lexicons are recommended.

## ENGLISH AND MODERN LANGUAGES.

J. W. CARR, *Professor.*E. F. SHANNON, *Associate Professor.*MISS H. B. DAVIES, *Adjunct Professor.*

## English.

1. ELEMENTARY COMPOSITION AND LITERARY HISTORY (3).  
 —A. S. Hill's *Principles of Rhetoric* (revised and enlarged edition), and Simonds's *History of English Literature*. Recitations, weekly impromptu themes based upon assigned reading, and other written exercises; memorizing of Gray's *Elcgy*; Goldsmith's *Deserted Village*; Dryden's *Alexander's Feast* and *Song for St. Cecilia's Day*; and assigned reading as follows:

Date of Recitation.	Author.	Assigned Reading.	Edition.	Publ'rs Price, Postp'd.
Oct. 3		Beowulf	Riverside, 159	.15
Oct. 10		Beowulf (finished)		
Oct. 17	Wyclif- Mandeville	Selections	Maynard, 107	.12
Oct. 24	Chaucer	Prologue to the Canter- bury Tales (to line 411)	Riverside, 135	.15
Oct. 31	Chaucer	Prologue to the Canter- bury Tales (finished)		
Nov. 7	More	Utopia	Cassell & Co.	.10
Nov. 14	Spenser	Shepherd's Calendar	Cassell & Co.	.10
Nov. 21	Shakspeare	Romeo and Juliet	Cassell & Co.	.10
Nov. 28	Bacon	Essays, Civil and Moral	Maynard, 3	.12
Dec. 5	Milton	Samson Agonistes	Cassell & Co.	.10
Dec. 12	Bunyan	Grace Abounding	Cassell & Co.	.10
Dec. 19	Dryden	Palamon and Arcite	Riverside, 125	.15
Jan. 9	Steele-Addison	Isaac Bickerstaff	Cassell & Co.	.10
Jan. 16	Swift	Gulliver's Travels	Riverside, 89, 90	.30
Jan. 23	Pope	Rape of the Lock	Riverside, 147	.15
Feb. 6	Goldsmith	The Good Natured Man	Cassell & Co.	.10
Feb. 13	Johnson	Rasselas	Cassell & Co.	.10
Feb. 20	Sheridan	School for Scandal	Cassell & Co.	.10
Feb. 27	Burns	Cotter's Saturday Night, etc	Riverside, 77	.15
Mch. 6	Keats	Eve of St. Agnes, etc	Riverside, 127	.15
Mch. 13	Byron	Prisoner of Chillon, etc	Riverside, 128	.15
Mch. 20	Scott	Lady of the Lake	Cassell & Co.	.10
Mch. 27	Macaulay	Essay on Boswell's Life of Johnson	Maynard, 106	.12
Apr. 3	De Quincey	Confessions of an Opium Eater	Macmillan	.25

Date of Recitation.	Author.	Assigned Reading.	Edition.	Publ'rs Price, Postp'd.
Apr. 10	Thackeray	Roundabout Papers	Maynard, 50	12
Apr. 17	Dickens	Christmas Carol	Riverside, 57	15
Apr. 24	George Eliot	Adam Bede	Maynard, 67	12
May 1	Carlyle	Essays on Goethe.	Cassell & Co.,	10
May 8	Matthew Arnold	Sohrab and Rustum, etc.	Riverside, 132	15
May 15	Tennyson	Enoch Arden, etc.	Riverside, 73	15
May 22	Ruskin	Sesame and Lilies.	Riverside, 142	15
May 29	Rossetti	Selected Poems	Maynard, 220	12
June 5	Morris	Life and Death of Jason	Maynard, 53	12

*Publishers' Addresses:* (Riverside) Houghton, Mifflin & Co.; (Maynard) Maynard, Merrill & Co., both with branches in Chicago; Cassell & Co., New York City; The Macmillan Co., New York City, and Dallas, Texas.

Students should secure the books for assigned reading early, either by ordering through a bookseller, or by sending a money order or stamps to the publishers mentioned above. The excuse will not be accepted that books were ordered through a bookseller but not received.

The whole class will meet every Tuesday forenoon at the second period (9 25-10 20) for instruction in the History of English Literature. For writing and rewriting themes, and for recitations in rhetoric and poetry the class is divided into sections, meeting each twice a week, as follows: Th. F. 2; Th. F. 3. W. Th. 6. Fr. M. 7 *Required of all Freshmen*

PROFESSORS CARR AND SHANNON.

2. ADVANCED COMPOSITION; OUTLINE HISTORY OF THE LYRIC, THE EPIC, THE DRAMA, THE NOVEL, AND THE ESSAY. ELEMENTARY ANGLO-SAXON (3) —Barrett Wendell's *Composition*, Brewster's *Narration*, Baldwin's *Description*; Lamont's *Exposition*; Baker's *Argumentation*, and Smith's *Old English Grammar*. Recitations, lectures, informal discussions, weekly impromptu themes based upon the assigned reading, long themes (two narrative, two descriptive, two expository, and two argumentative), due on the third Tuesday of each month from October to May inclusive; and assigned reading as follows:

Date of Lecture	Gen'l Subject.	Assigned Reading.	Edition.	Publ'r Price, Postp'd.
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**Lyric Poetry.**

Oct. 3.	..Lyric and Song...	Lyrics and Songs in the Golden Treasury (1861)	Macmillan.....	.25
Oct. 10	..Sonnet.....	Sonnets in the Golden Treasury, and English and American Sonnets.....	Maynard, 192....	.12
Oct. 17	Ode.....	Odes in the Golden Treasury.....		
Oct. 24	..Dirge.....	Lycidas (1637), Golden Treasury.....		
		Adonais (1821).....	Maynard, 85.....	.12
		In Memoriam (1850).....	Maynard, 57.....	.12

**Epic Poetry.**

Oct. 31	Ballad of Growth	Old English Ballads. . .	Macmillan.	.25
Nov. 7	..Ballad of Art....	Lays of Ancient Rome (1847).....	Cassell & Co.....	.10
Nov. 14	..Folk Epic.....	Beowulf .....	D. C. Heath & Co.	.25
Nov. 21	..Barnyard Epic.	Nun's Priest's Tale (1385)	Riverside 136	.15
Nov. 28	..Allegorical Romance.....	Faerie Queene (1589)...	Riverside, 160....	.15
Dec. 5	..Religious Epic....	Paradise Lost, Books I. to III. (1667).....	Riverside, 94.....	.15
Dec. 12	..Sophisticated Romance.....	Marmion (1808).....	Cassell & Co.....	.10
Dec. 19	..Epic Romance....	Idylls of the King (1888).....	Riverside, 99.....	.15

**Drama.**

Jan. 9	..Late XVI. Century Drama....	Jew of Malta (1588)...	Maynard, 101....	.12
Jan. 16	..Early XVII. Century Drama....	Hamlet (1603) .....	Cassell & Co.....	.10
Jan. 23	..Early XVIII. Century Drama.	Cato (1713) .....	Maynard, 92.....	.10
Feb. 6	..Late XVIII. Century Drama....	She Stoops to Conquer (1773).....	Cassell & Co.....	.10
Feb. 13	..Sheridan, last of the British Dramatists....	The Rivals (1775).....	Cassell & Co.....	.10

**Novel.**

Feb. 20	..Arthurian Romance.....	Malory's Morte d' Arthur (1485), Books I., II....	Riverside, 158....	.15
Feb. 27	..Elizabethan Romance.....	Lodge's Rosalind (1590)	Cassell & Co.....	.10

Date of Lecture	Gen'l Subject.	Assigned Reading	Edition.	Publ'rs Price, Postp'd.
Mar. 6	Allegorical Novel.	Bunyan's Pilgrims' Progress (1678-1684).....	Riverside, 109....	.30
Mar. 13	XVIII. Century Realism.....	Richardson's Clarissa Harlowe (1747-1748)...	H. Holt & Co.....	
Mar. 20	Gothic Romance.	Walpole's Castle of Otranto (1764).....	Cassell & Co.....	.10
Mar. 27	XIX. Century Romance.....	Scott's Quentin Durward (1823).....	Baker & Taylor Co.	
Apr. 3	Humanitarian Novel.....	Dickens's Oliver Twist (1837).....	Baker & Taylor Co.....	27
Apr. 10	XIX. Century Realism.....	Thackeray's Vanity Fair (1847).....	Baker & Taylor Co.	
Apr. 17	Psychological Novel.....	Eliot's Scenes of Clerical Life (1858).....	Baker & Taylor Co.	
Apr. 24	Contemporary Romance.....	Stevenson's Treasure Island (1883).....	Macmillan.....	.25
<b>Essay.</b>				
May 1	Bacon, first Eng- lish Essayist...	Essays (1625).....	Cassell & Co.....	.10
May. 8	Early XVIII. Cen- tury Essay.....	Addison's Essays and Tales (1709-14).....	Cassell & Co.....	.10
May 15	Early XVIII. Cen- tury Essay.....	Steele's Essays and Tales (1709-14).....	Cassell & Co.....	.10
May 22	Early XIX. Cen- tury Essay.....	Lamb's Essays of Elia (1823).....	Riverside, 79....	.15
May 29	Mid-Century Essay	Warren Hastings (1841)	Cassell & Co	.10
June 5	Late XIX. Cen- tury Essay.....	Mathew Arnold's Cul- ture and Anarchy (1869)	Maynard, 68....	.10

*Publishers' Addresses:* The Macmillan Co., New York City and Dallas, Tex.; (Maynard) Maynard, Merrill & Co., Chicago, Ill.; Cassell & Co., New York City; D. C. Heath & Co., Chicago, Ill.; (Riverside) Houghton, Mifflin & Co., Chicago, Ill.; Baker & Taylor Co., New York City; H. Holt & Co., Chicago, Ill.

Students should secure the books for assigned reading early either by ordering through a bookseller, or by sending a money

order or stamps to the publishers mentioned above. The excuse will not be accepted that books were ordered through a bookseller but not received.

The whole class will meet every Tuesday forenoon at the third period (10-20-11 15) for instruction in the Outline History of English Literary Forms. For recitations and informal discussions in advanced rhetoric and elementary Anglo-Saxon, the class is divided into two sections, meeting twice a week: Th. M. 4; Th. F. 3. *Required of all Sophomores in the B. A. and B. S. Courses; elective for others who have credit for English 1.*

PROFESSORS CARR AND SHANNON.

6a. ENGLISH LITERATURE OF THE SIXTEENTH CENTURY (2) —Special attention will be paid to the period beginning with Tottel's Miscellany, and ending with the death of Spenser (1557-1599). *Prerequisite: English 2. M. F. 6.*

ASSOCIATE PROFESSOR SHANNON.

7a. ENGLISH LITERATURE OF THE SEVENTEENTH CENTURY (2) —English literature from the death of Spenser to the death of Dryden (1599-1700). The introductory work will deal largely with Shakspere. *Prerequisite: English 2. Offered in 1906-1907. T. W. 5.*

8. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY (2) —English literature from the death of Dryden to the publication of the Lyrical Ballads (1700-1798). *Prerequisite: English 2. M. F. 6. Offered in 1906-1907.*

ASSOCIATE PROFESSOR SHANNON.

9. ENGLISH LITERATURE OF THE NINETEENTH CENTURY (2). —English literature from the publication of the Lyrical Ballads to the death of Queen Victoria (1798-1901). *Prerequisite: English 2. T. W. 5.*

10a. MIDDLE ENGLISH (2) —Chaucer's Life and Poems; History of the English Language; History of Middle English Literature. *Prerequisite: English 2. Required of those Juniors whose major subject is English or English and Modern Languages.*

PROFESSOR CARR.

11a. ANGLO-SAXON (2). —*Beowulf* will be read. For assigned reading. Anglo-Saxon literature in translations, and Greenough and Kittredge's *Words and their Ways in English*



*Speech Prerequisite: English 10a. Offered in 1905-1906. Required of those Seniors whose major subject is English or German.* M. W. 3. PROFESSOR CARR.

### German.

1. ELEMENTARY COURSE (3). —Lange's *German Method*; translation from German into English; elementary exercises in translation into German; memorizing of easy German songs. T. W. F. 4; T. W. Th. 7.

ASSOCIATE PROFESSOR SHANNON.

2. GERMAN PROSE AND POETRY (3). —Easy German texts the first term; selected works of Lessing, Goethe, and Schiller the second term; composition; sight reading; assigned reading; memorizing of German songs. *Prerequisite: German 1.* T. W. Th. 6. PROFESSOR CARR.

3a. HISTORY OF GERMAN LITERATURE with special study of the classic periods of the twelfth and eighteenth centuries (3). Kluge's *Deutsche National-Litteratur*; assigned reading; a German theme each week. *Prerequisite: German 2.* M. W. F. 2. PROFESSOR CARR.

3b. MIDDLE HIGH GERMAN and OLD HIGH GERMAN (2). Paul's *Mittelhochdeutsche Grammatik* and the *Nibelungenlied*, the first term, Braune's *Althochdeutsche Grammatik* and *Lesebuch*, the second term; translation both terms into modern German only. This course is intended to supplement *German 3a*.

PROFESSOR CARR.

4a. GERMAN LITERATURE OF THE NINETEENTH CENTURY (3). —The Romantic School; von Kleist; Romantic Fiction; Uhland and the Suabian School; Romantic Lyric; Poetry of Pessimism; young Germany, Heine, the Drama (Wildenbruch, Sudermann, and Hauptmann), the Epic (Hebbel), and the Lyric (Geibel), outside reading taken wholly from modern prose fiction, weekly reports in German. *Prerequisite: German 3a.* M. W. F. 4. PROFESSOR CARR.

4b. GOTHIC AND OLD SAXON (2) —Braune's *Gotische Grammatik*, and Heyne's *Ulfilas* the first term; Holthausen's *Altsaechsisches Elementarbuch*, Siever's *Heliand*, and Zangemeister's Braune's *Bruchstuecke der Altsaechsischen Bibeldichtung*. This course is intended to supplement *German 4a*. *Prerequisite: German 3b.* T. Th. 4. PROFESSOR CARR.



## French.

1. ELEMENTARY COURSE (3).—Fraser & Squair's Grammar (abridged edition); Kuhns's French Reading for Beginners; Halévy's *L'Abbé Constantin*; Grandgent's Materials for French Composition; sight reading. M. W. F. 2; T. W. Th. 7.

ADJUNCT PROFESSOR DAVIES.

2. FRENCH PROSE AND POETRY (3).—Selected works of Malot, Erckmann-Chatrian, Feuillet, Sandeau, Sand, and Daudet; French Daily Life; Bowen's French Lyrics; Cameron's French Composition; reading at sight; assigned reading. *Prerequisite: French 1.* M. W. F. 3.

ADJUNCT PROFESSOR DAVIES.

3a. FRENCH LITERATURE OF THE NINETEENTH CENTURY (3).—Lectures, reading, themes, and assigned reading. *Prerequisite: French 2.* Offered in 1906-1907.

ADJUNCT PROFESSOR DAVIES.

4. HISTORY OF FRENCH LITERATURE (3).—Lectures; recitations; reading of works representative of different epochs, especially of the seventeenth century; written reports. This course will not be given for fewer than three students. *Prerequisite: French 2.*

ADJUNCT PROFESSOR DAVIES.

6. OLD FRENCH (2).—Old French Grammar; Chanson de Roland; Aucassin et Nicolette.

ADJUNCT PROFESSOR DAVIES.

## Spanish.

1. ELEMENTARY COURSE (3).—Loiseaux's Grammar; Padre Isla's *Gil Blas*, and other easy texts; composition; conversation; reading at sight. M. T. Th. 5.

ADJUNCT PROFESSOR DAVIES.

2. HISTORY OF SPANISH LITERATURE (2).—Lectures; themes; reports; and assigned reading. *Prerequisite: Spanish 1.* Offered in 1906-1907. T. Th. 2.

ADJUNCT PROFESSOR DAVIES.

## Italian.

1. ELEMENTARY COURSE (3).—Sauer's Grammar; Cataneo's Reader; de Amicis's *Cuore*; Silvio Pellico's *Le Mie Prigioni*; Snell's *Primer of Italian Literature*; composition; conversation; reading at sight. Offered in 1906-1907. M. T. Th. 5.

2. DANTE (2).—Selections from the *Vita Nuova* and the *Divine Comedy*. *Prerequisite: Italian 1.* T. Th. 2.

ADJUNCT PROFESSOR DAVIES.

ENGLISH AND MODERN LANGUAGE GROUPS.

Those students who select their major subject in the department of English and Modern Languages, but did not offer a modern language for admission to college may choose any one of the five groups of studies mentioned below. Students who offered a modern language (but no ancient language) for admission, will substitute six hours of a modern language for the work already completed in modern languages. Before classifying, those students whose major subject is taken in the department of English and Modern Languages are required to consult with the head of the department.

GROUP I. (ENGLISH).—English 1 and German 1 in the Freshman year; English 2, German 2, and French 1 in the Sophomore year; English 10a, 7a (or 9), and 8 (or 6a), and French 2 in the Junior year; English 11a, 9 (or 7a), and 6a (or 8) in the Senior year.

GROUP II. (ENGLISH AND MODERN LANGUAGES).—English 1 and German 1 in the Freshman year; English 2, German 2, and French 1 in the Sophomore year; English 10a, German 3a, and French 2 in the Junior year; French 4 (or 3a), and four hours selected from English 11a, 9 (or 7a), and 6a (or 8), in the Senior year.

GROUP III. (MODERN LANGUAGES).—German 1 and English 1 in the Freshman year; German 2, French 1, and English 2 in the Sophomore year; German 3a, French 2, and Spanish 1 (or Italian 1) in the Junior year; French 4 (or 3a), and Italian 1 (or Spanish 1) in the Senior year.

GROUP IV. (GERMAN).—German 1 and English 1 in the Freshman year; German 2 and English 2 in the Sophomore year; German 3a and 3b, and French 1 in the Junior year; German 4a and 4b, English 11a, and French 2 in the Senior year.

GROUP V. (ROMANCE LANGUAGES).—French 1 and English 1 in the Freshman year; French 2, English 2, and German 1 in the Sophomore year; French 4 (or 3a), German 2, and Italian 1 (or Spanish 1) in the Junior year; French 3a (or 4), and Spanish 1 (or Italian 1) in the Senior year.

## MATHEMATICS AND ASTRONOMY.

GEORGE W. DROKE, *Professor.*B. J. DUNN, *Associate Professor.*

## Mathematics.

1. (a) SOLID GEOMETRY (*first term*) (3) —Beman and Smith's New Plane and Solid Geometry. 2, 3, 4, and 5 periods. M. W. F.

(b) PLANE TRIGONOMETRY (*second term*) (3). —Lyman and Goddard's Trigonometry. *Required of all Freshmen* 2, 3, 4, and 5 periods. M. W. F.

1a ALGEBRA (1) — Freshman elective intended for those who do not desire to take Mathematics beyond the Freshman year. Such students will find this course very helpful both in assisting them to carry successfully course 1, and in preparing them to teach elementary Algebra. The course will include: Theory of Exponents; Imaginary and Complex Numbers; Theory of Quadratic Equations; Ratio and Proportion; Inequalities; Progressions, and Logarithms.

2 ALGEBRA (2) — Wells's College Algebra, chapters xxii to xxxix, inclusive, except chapters xxxv and xxxviii. *Required of all Freshman Engineers, elective in other courses.*

3 (a) ALGEBRA (*first twenty-four weeks of session*). The same text-book as in course 2.

(b) ANALYTIC GEOMETRY (*last twelve weeks of session*) (3) — Smith and Gale's Elements of Analytic Geometry. Course 3 is an elective course, intended for the B. S. and B. A. Sophomores who did not take Course 2 in Freshman year.

4. ANALYTIC GEOMETRY (3) — Same text-book as in course 3 (b). *Required of all Sophomore Engineers; elective in other courses.*

5. (a) ALGEBRA (*continuation of course 2*) —Twenty-four weeks.

(b) CALCULUS (*twelve weeks*) (2) —*Required of Sophomore Engineers and of those whose major subject is mathematics; elective in other courses.*

5a. ANALYTIC GEOMETRY [*continuation of course 3 (b)*] (2) —*Junior elective in the B. S. and B. A. courses.*

6. DIFFERENTIAL AND INTEGRAL CALCULUS (*continuation of course 5*) (b) (3). —*Required of Junior Engineers and of those whose*

major subject is mathematics; elective in other courses. The last eight weeks of this course the student may elect either Spherical Trigonometry or Differential Equations. *Prerequisite: Course 5.*

6a. DIFFERENTIAL EQUATIONS (*first term, Senior year*) (1)

This course is intended for those Seniors who elect Differential Equations in Course 6.

8. SPHERICAL TRIGONOMETRY, THEORY OF EQUATIONS, DETERMINANTS (2) — *Junior and Senior elective*

9. DIFFERENTIAL EQUATIONS, AND ANALYTICAL GEOMETRY OF THREE DIMENSIONS (3) — *Books of Reference: C. Smith's and Frost's Solid Geometry; Salmon's Geometry of Three Dimensions. Senior elective.* This course may be taken by graduate or undergraduate students.

NOTE. Those who desire to make mathematics their major subject may select either one of the following groups:

- (A) Courses 1 and 2 in the Freshman year.  
Courses 4 and 5 in the Sophomore year.  
Courses 6, 7 and 8 in the Junior year.  
Course 9 in the Senior year.
- (B) Course 1 in the Freshman year.  
Course 3 in the Sophomore year.  
Courses 5 and 5a in the Junior year.  
Course 6 in the Senior year.  
Group (B) is the minimum requirement.

**Astronomy.**

13a. DESCRIPTIVE ASTRONOMY, LECTURES AND RECITATIONS (*first term*) (2).—6th period M. and Th.

14a. SPHERICAL ASTRONOMY (*second term*) (2) — The class in Astronomy has the use of a four inch telescope, sextant, celestial globe, and other simple instruments.

**HISTORY AND POLITICAL SCIENCE.**

J. H. REYNOLDS, *Professor.*

The courses in this department are designed to afford general culture, and in addition are essential to those who are looking to law, journalism, politics, the ministry or any other public calling. Course 2 is foundation work and should be taken in the Freshman year.

2. (a) **MEDIEVAL HISTORY** (*first term*) (3).—This course is designed to give the student a knowledge of the essential contributions of the ancient world to history, of the reorganization of German society upon the basis of Graeco-Roman civilization, and the rise of the modern states. M. 4, W. 5, F. 4; T. 1, W. 5, Th. 1.

(b) **MODERN HISTORY** (*second term*) (3).—Beginning where course (a) leaves off, the class will study the great world movements of modern times, such as the reformation, religious wars, absolutism, the struggle for constitutional government in England, the contest for supremacy on the high seas, the French Revolution, and the democratic movements of the nineteenth century. All students seeking a liberal education should take this course. *Text-Books:* Robinson's History of Western Europe and his Readings in European History. *For Freshmen.* M. 4, W. 5, F. 4; T. 1, W. 5, Th. 1.

3a. (a) **THE COLONIES** (*first term*) (3).—The planting and the growth of English institutions in America; the development of the federal idea; our breach with England; and the making of our federal constitution. Largely a library course; charters and constitutional documents, as well as the best secondary sources will be studied. T. Th. F. 2.

(b) **THE FEDERAL PERIOD TO 1875** (*second term*) (3).—The constitutional and political history of the United States will be studied from the organization of the government to the close of reconstruction, emphasizing the growth of political parties, the contest between federal authority and states' rights, the slavery controversy, and the constitutional results of the Civil War and reconstruction. Method of work the same as in course (a). T. Th. F. 2.

5a. (a) **EARLY ENGLISH INSTITUTIONS** (*first term*) (3).—The origin and growth of the more important English institutions, such as the Kingship, Parliament, Privy Council, common law courts, jury system, and local government. Period covered from 450 to 1300. While the student should have Terry's History of England, and Lee's Source Book, yet free use will be made of both original and secondary sources in the library.

(b) **CONSTITUTIONAL HISTORY OF ENGLAND IN MODERN TIMES** (*second term*) (3).—After a brief survey of the Tudor

period, the class will study more in detail the struggle for constitutional government in the Stuart period, the history of the cabinet, and the growth of parliamentary government. For method and text-books see course (a).

1. (a) HISTORY OF GREECE (*first term*) (2). —This course is designed to give a thorough knowledge of the history and the institutions of the Greeks. A general knowledge of the subject is presumed.

(b) HISTORY OF ROME (*second term*) (2). —The explanations made above in regard to the history of Greece apply to this course.

7. (a) FRENCH REVOLUTION AND THE NAPOLEONIC ERA (*first term*) (2). —France on the eve of the revolution, her political philosophers; causes and events of the revolution; and the wars of Napoleon. T. Th. 4.

(b) THE NINETEENTH CENTURY (*second term*) (2). —The democratic movements of the century; the development of constitutional government; the unification of Italy and Germany; the colonial policies of European states; and the present condition of world politics. T. Th. 4.

4a. (a) AMERICAN STATE GOVERNMENT (*first term*) (2). —A study of the place of the state in our federal system, of the constitutional law of states, of the structure and workings of American state governments as they exist today, and of some of the practical problems now before the states. M. W. 2.

(b) NATIONAL GOVERNMENT (*second term*) (2). —A study and comparison of the structure and powers of the national governments of England, United States, France, Germany, and Switzerland. Special emphasis will be given to the place of the federal system in public law. *Text-book*: Burgess's Political Science and Constitutional Law, and the constitutions themselves. M. W. 2.

6. (a) ELEMENTS OF JURISPRUDENCE (*first term*) (3). —A study of the nature, definition, classification, and elementary principles of law. Discussions largely non-technical. Designed to give the essential principles of law needed by every citizen, and to introduce the subject to those students who may be looking to the law. *Text-book*: Robinson's Elements of Jurisprudence. M. W. Th. 3.



(b) **INTERNATIONAL LAW** (*second term*) (3).—A brief sketch of the history of international law, and a study of the principles now considered binding on civilized nations. Some three weeks will be devoted to Parliamentary law. *Text-book*: Davis's Elements of International Law. M. W. Th. 3.

10. **MUNICIPAL GOVERNMENT** (1).—While the government of our cities is coming to sustain a most vital relation to the public welfare, the American city is notoriously ill-governed. This course will offer an opportunity to study our experience in municipal government, the structure and working of typical city governments, and some special municipal problems. Throughout the year. F. 1.

### **HISTORY OF FINE AND APPLIED ART.**

HENRY SIMMS HARTZOG, *Professor.*

The object of this course is to cultivate artistic appreciation by familiarizing the student with the masterpieces of fine and applied art, and the principles which govern their production.

The subject-matter of the lectures, primarily historical and critical, is illustrated by stereopticon pictures, casts, photographs, and engravings.

Collateral reading and critical analysis of illustrative material will be required.

For the session of 1905-1906 there will be one lecture per week, open to Juniors and Seniors. The course will embrace the following discussions:

**CLASSICAL ARCHAEOLOGY**.—History of ancient art, chiefly Greek; Roman, Early Christian, and Medieval art; with some notice of Byzantine, Arabian, and Oriental art.

**RENAISSANCE PAINTING**.—The fifteenth and sixteenth centuries; effect of dominant motives of the epoch; the great masters and their most significant works.

**MODERN ART**.—Seventeenth, eighteenth, and nineteenth centuries, with special reference to French and American art.

*Reference Works*: Outlines of History of Art, Wilhelm Lubke; History of Ancient Art, Franz Von Weber; History of Painting,



A. F. Woltman; History of Ancient Sculpture, L. M. Mitchell; History of European Sculpture, Allen Marquand

**THEORY AND CRITICISM OF THE FINE ARTS.**—How to interpret paintings and sculpture; the value of the beautiful; the limitations of art; the relation of painting and sculpture to literature.

**HISTORY OF ARCHITECTURE.**—A survey of the development of the historical styles, and a study of the great structures best representing those styles; the proportions adopted by the Renaissance; classical forms; Gothic cathedrals; origin and history of style; the Acropolis of Athens; principles and motives of modern architecture; discussion of composition as applied to architecture; analysis of ornament.

*Reference Works:* History of Architecture, Fletcher; History of Architecture, James Ferguson.

**CIVIC AND INDUSTRIAL ART.**—Specific problems of convenience and beauty which confront cities. The home beautiful.

*Reference Book:* Improvement of Towns and Cities, Robinson.

## **ECONOMICS AND SOCIOLOGY.**

CHARLES HILLMAN BROUGH, *Professor.*

The courses offered in this department are designed to give instruction in problems of current economic, social and public interest, to prepare students for the duties of citizenship and participation in the professions of law, politics, journalism, financeering in general, for professional and business careers.

1. **PRINCIPLES OF ECONOMICS, THE TRUSTS AND TARIFF** (*both terms*) (3). —*Texts:* Bullock's Introduction to the Study of Economics, and Bolen's Plain Facts as to the Trusts and the Tariff. Section 1, M. T. Th.1; Section 2, M. 6, W. 6, F. 4.

2. **LAW** (*both terms*) (3). —A thorough study is made in this course of the principles of corporation law; the law of bills, checks, and notes; the law of contracts and agency. *Texts:* Clark on Corporations; Bigelow's Bills, Checks, and Notes; Harriman on Contracts; and Huffcut on Agency T. 6, W. 1, F. 1.

3. MONEY (*first part of first term*) (3).—The principles of money and credit, and the history of monetary systems are fully considered. *Text*: White's Money and Banking (revised edition). T. 2, Th. 2, F. 5.

4. BANKING (*the latter part of first term and first part of second term*) (3).—The design of this course is to give instruction in practical banking and an insight into the business mechanism of banks. *Texts*: Fiske's, The Modern Bank, and parts of Barrett's Modern Banking Methods. T. 2, Th. 2, F. 5.

8. TRANSPORTATION, ITS HISTORY AND PROBLEMS (*latter part of second term*) (3).—The economics of water transportation, the great lakes, canal systems, and the Mississippi River; the evolution of the railroad system, railroad geography, rate making, state versus private ownership, methods of government control, railroad finances; lectures; prescribed readings; and use of Railroad Commission reports. *Text*: Johnson's American Railway Transportation. T. 2, Th. 2, F. 5.

5. TARIFF HISTORY AND PROBLEMS (*first term*).—The theory of free trade and protection; the tariff history of the United States; and the tariff systems of the leading countries engaging in trade with the United States will be dealt with. *Text*: Taussig's Tariff History of the United States. This will be supplemented by lectures and assigned readings in Rabbeno's America's Commercial Policy, and Laughlin and Willis's Reciprocity. W. 5, F. 6.

12. INDUSTRIAL HISTORY OF THE UNITED STATES (*latter part of first term and first part of second term*).—The industrial development of the United States from colonial times will be traced, special attention being given to modern industrial processes and present resources. Lectures; recitations; special reports; prescribed readings. *Text*: Wright's Industrial Evolution of the United States. W. 5, F. 6.

13. THE TRUST PROBLEM (*latter part of second term*) --A comprehensive study will be made of the causes, economics, and evils of the modern trusts, and a consideration of plans for their proper regulation and control will be given. Lectures and assigned reading. *Texts*: Montague's The Trusts of Today; Meade's Trust Finance; and the report of the Chicago Conference on Trusts.

7 PUBLIC FINANCE (*first term*) (3). The principles and history of taxation, management of public debts, and financial administration will be dealt with. *Text*: Plehn's Introduction to the Study of Public Finance. Supplementary reading in Seligman's Essays on Taxation, and Incidence of Taxation. M. 4, W. 4, F. 3.

14 FINANCIAL HISTORY OF THE UNITED STATES (*first part of second term*) (3). An investigation of the expenditures, revenues, debts, and financial administration of the United States. The tariff history, the public land policy, the national and state banking systems and like topics will be studied. *Text*: Dewey's Financial History of the United States. M. 4, W. 4, F. 3.

15 MUNICIPAL PUBLIC WORKS (*latter part of second term*) (3).—A study of the economics of city waterworks, electric light and street railway systems. *Text*: Whinery's Municipal Public Works. M. 4, W. 4, F. 3.

6 THE LABOR QUESTION (*first term*) (2).—A study of the purposes and fundamental principles of trade unions; strikes, boycotts, lockouts, blacklists, arbitration, conciliation and injunctions from both the side of the laborer and employer. *Text*: Bowen's Getting a Living. Supplementary reading in John Mitchell's Organized Labor. T. 3, Th. 3.

11 SOCIALISM (*second term*) (2).—A study of socialism and social reform, involving a consideration of such practical questions as the government ownership of railroads, the single tax, and cooperation. *Text*: Ely's Socialism and Social Reform. Assigned reading in George's Progress and Poverty; Ely's Industrial Evolution of the United States; Bellamy's Looking Backward, Gillman's Socialism and the American Spirit and A Dividend to Labor. T. 3, Th. 3.

9 PRINCIPLES OF SOCIOLOGY (*first term*) (2).—This course considers the elements of social growth and progress, describes social institutions, and suggests practical social reforms. *Text*: Wright's Practical Sociology. T. 7, Th. 7.

10 SOCIAL PATHOLOGY (*second term*) (2).—A study of the dependent, defective, and delinquent classes, the slum centers, their problems, and conditions. *Text*: Henderson's Modern Methods of Charity.

## CHEMISTRY.

A. M. MUCKENFUSS, *Professor.*H. E. MORROW, *Adjunct Professor.*

## FRESHMAN YEAR.

1. GENERAL CHEMISTRY (3).—Lectures and quizzes twice a week; two sections (*a* and *b*); laboratory work one afternoon per week, five sections (*c*, *d*, *e*, *f*, and *g*). *Text:* Newell. *Required in engineering and other scientific courses. Prerequisite to all other courses in chemistry.* *a*, M. W. 3; *b*, M. W. 4; *c*, M. 6, 7; *d*, T. 6, 7; *e*, W. 6, 7; *f*, Th. 6, 7; *g*, F. 6, 7.

PROFESSOR MUCKENFUSS.

ADJUNCT PROFESSOR MORROW.

## SOPHOMORE YEAR.

2. INORGANIC CHEMISTRY (2).—Lectures and quizzes twice a week. *Text:* Newth. T. Th. 2.

ADJUNCT PROFESSOR MORROW.

3. QUALITATIVE ANALYSIS. (*a*) ELEMENTARY COURSE (3).—Five hours' laboratory work, and one hour's discussion of results throughout the year. First term, a study of characteristic reactions. *Text:* White. Second term, the analysis of simple substances. *Text:* Dennis and Whittelsey. *One term may be elected.* T. 1; W. 6, 7; F. 6, 7, 8.

PROFESSOR MUCKENFUSS.

ADJUNCT PROFESSOR MORROW.

(*b*) ADVANCED COURSE (3).—Analysis of complex substances. The object is for the student to understand methods of separation, and to follow them correctly. *Text:* Prescott and Johnson. Second term. M. 6, 7; T. 6, 7; W. 1, 2.

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## JUNIOR YEAR.

4. ORGANIC CHEMISTRY (4).—Lectures and quizzes twice per week; laboratory work in organic preparations two afternoons, throughout the year. *Text:* Remsen. T. 2; Th. 4; M. 3, 4; T. 6, 7.

ADJUNCT PROFESSOR MORROW.

5. ELEMENTARY QUANTITATIVE ANALYSIS (3).—Laboratory work five hours per week, and one hour's discussion of results

throughout the year. Training for accuracy in gravimetric and volumetric methods. *Text:* Clowes and Coleman. *One term may be elected.* F. 2; W. 6, 7; Th. 6, 7, 8.

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**SENIOR YEAR.**

7. **ADVANCED QUANTITATIVE ANALYSIS.** (a) **GENERAL METHODS** (3).—Laboratory work five hours, and discussion of results once per week, throughout the year. A study of methods of separation as well as the comparative accuracy of parallel methods of analysis. W. 1; F. 3, 4, 6, 7, 8.

(b) **SPECIAL METHODS** (3).—Iron and steel analysis, gas analysis, and practice with rapid methods. Second term. M. 1, 2, 6, 7; Th. 3, 4.

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8. **THEORETICAL CHEMISTRY** (2).—Advanced study of modern chemical theories. *Text:* Jones. M. 4, Th. 2.

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9. **ASSAYING** (3). Laboratory work, consisting of preparing and testing reagents, making cupels, and assaying samples of furnace and mill products for gold, silver, or lead. *Text:* Ricketts and Miller. Second term. Th. 6, 7, 8; F. 6, 7, 8.

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**\*ELECTIVE COURSES.**

*Prerequisite for laboratory work: courses 3 and 5 in part.*

6. **AGRICULTURAL AND FOOD ANALYSIS** (3).—Laboratory work six hours per week for students of agriculture. *Texts:* Bulletin No. 46, United States Department of Agriculture, and Leffman and Beam. First term.

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12. **METALLURGY** (3).—Three times per week during first term, for students of mining. *Text:* Huntington and McMillan. M. W. F. 1.

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13. **WATER ANALYSIS** (3).—Laboratory work upon the analysis of water for potability and for technical uses during first term. *For civil engineering students.* *Text:* Mason.

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\*The department reserves the right to withdraw any of the four above-mentioned courses, when not elected by as many as four students.

14. **ELECTRO-CHEMISTRY (3)** — Class and laboratory work during second term. *For electrical engineering students.* *Texts:* Blount and Luepke. M. Th. F. 1.

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#### Journal Meeting.

In addition to the above-mentioned courses, the Seniors and Juniors, the professors in charge, and the chemists of the experiment station, meet in the chemical laboratory one evening in each month, to present papers upon their researches, and upon investigations appearing in current chemical journals.

#### DEPARTMENT OF BIOLOGY.

F. W. PICKEL, *Professor.*

The courses of this department have been arranged to meet the needs of three classes of students; those who desire to become acquainted with the fundamental principles of plant and animal life; those who contemplate the study of medicine; and those wishing to go more thoroughly into the study of biologic science to obtain the technical training necessary for subsequent investigation or for teaching.

1. **GENERAL BIOLOGY (3)** — This course serves as an introduction to the whole field of biological science, and should be a part of the general education of every student. Types of plants and animals will be dissected and studied in the laboratory, and the essential truths of biology emphasized. One recitation and laboratory work, four hours per week throughout the year. *Text-book.* Parker's Lessons in Biology. M. 7. Th. 3, 4.

2. **BOTANY (3).** In this course special attention is paid to the morphology, physiology, and ecology of plants, but due attention is given, in the second term, to the systematic classification of plants, and each student is required to collect and write a technical description of a certain number of plants. The geological history of plants and the origin of cultivated plants will be briefly considered. Field work, when practicable, will



form an important feature of the course. Recitations and laboratory work six hours per week throughout the year. *Text-books* Barnes's Plant Life; Chapman's Flora of Southern States. M. T. Th. 5, 6.

3. BOTANY. — This course will consist of lectures, assigned readings, and laboratory work in morphology, physiology, or taxonomy. Work and hours arranged after consultation with the head of the department. *Prerequisite* Botany 2.

4. BACTERIOLOGY. (4). — An introduction to the subject, and instruction in laboratory technique: the preparation of nutrient media, the characteristics of bacteria, the kind and effects, isolating and keeping pure cultures, microscopical preparations, the study of bacteria found in soil, in water, and in air, study of pathogenic forms and their relation to disease. One lecture and six hours' laboratory work, first term. *Prerequisite*: Chemistry 1. Biology 1. M. 6, 7, T. 7, Th. 6, 7, S. 2, 3.

5. GENERAL ZOOLOGY. (3). — A general course in invertebrate and vertebrate morphology. Attention will be given to the fundamental facts of zoological science, and the laws of development, heredity, variation, correlation, etc. In connection with the laboratory work in the course, instruction will be given to such students as desire to learn methods of preparing bird skins and mammal skins for laboratory and museum specimens. Field work, when practicable, will form an important feature of the course. One recitation and four hours' laboratory work per week throughout the year. *Text-books* Hertwig's Essentials of zoology, Kingsley's Comparative Anatomy. M. 3, 4; W. 5; F. 3, 4.

6. ENTOMOLOGY. (4). — Lectures relating to the metamorphosis, anatomy, physiology, and habits of insects. Special importance will be given to beneficial and injurious insects, with remedies for the latter. Laboratory work will consist of the study of typical forms with the aid of the guide. This will be followed with determination of families and practical studies of life histories of insects, and with methods of collecting, breeding, and preserving specimens. Two lectures and four hours' laboratory work per week. *Text-books* Comstock's Laboratory Guide; Harris's Insects Injurious to Vegetation. M. 1, F. 1, 2, 5, 6, 7.



7. MAMMALIAN ANATOMY (5).—This course is offered to students intending to study medicine, but is open to any student who has completed course 1 in biology. It includes a thorough dissection of one of the higher mammals, *e. g.*, the dog, cat, or rabbit; a short course of instruction in histological and embryological methods of technique to acquaint the student with the principles of histology and embryology. Two lectures and six hours' laboratory work per week throughout the year. *Text-books:* Hertwig's Embryology; Stohr's Histology. M. 1; Th. 6, 7; F. 5, 6; S. 1.

8. PHYSIOLOGY (4). The physiology of foods, digestion, and nutrition; the blood, circulation, and respiratory mechanism, the excretion, especially analysis of urine; functions of brain and spinal cord; physiology of nerve and muscle. Two lectures and four hours' laboratory work a week, second term. *Prerequisite:* Chemistry 1; *Elementary Physiology.* F. 6; S. 1, 4.

9. NATURE STUDY (1).—A special course in nature study, its aim, method, etc., and systematic science teaching will be offered to students who expect to teach. One lecture per week throughout the year.

#### GEOLOGY AND MINING.

A. H. PURDUE, *Professor.*

A. A. STEEL, *Associate Professor.*

The several courses in geology are intended to supply the needs of:

1. Students who wish to ground themselves in the elements of the science with the view of making it a life work. Of such, courses 2, 3, 5, 7, and 8 are required.

2. Students taking the course in mining engineering, of whom courses 2, 3, 5, and 7 are required.

3. Students in agriculture and civil engineering, for whom course 6 is recommended.

4. Students desiring a general educational knowledge of the subject, for whom course 2 is recommended.

The four years' course in mining engineering outlined on page 81 is planned to give that instruction

in the underlying principles of geology and mining and engineering, which can be acquired only with great difficulty outside of the colleges. Effort will be made to train the student in original thinking and the ready adaptation of means to the usual conditions so common in mining.

The practical work of mining, metallurgy, and ore dressing can be learned so much more rapidly and effectively by actual work, that no laboratory instruction in these lines is offered at the University. The students are expected to spend parts of at least two summer vacations at ordinary day's work in some mine, mill, or smelter, where they will be expected to ask questions of the workmen and keep notes of their observations, and compute the costs of some detailed operations. This plan, besides preparing the students for the study of the principles involved in their work, also gives them a useful knowledge of the workmen with whom they must deal, and tends to break down the prejudices on both sides.

This course in mining is designed to make specialists in mining geology and mine operating, rather than all round technical men. Hence a large part of the students' time is spent upon work in the department of geology and mining, but the necessary fundamental work in mathematics and applied science is not slighted, and enough work is required in the other technical departments to enable the graduates to solve the simpler problems of civil, mechanical, and electrical engineering, and metallurgy, and to judge of the qualifications of specialists in these lines, when in charge of large properties. There is also enough laboratory and field work required to fit the young mining engineer to do all

the analytical work, assaying, surveying, drafting, and designing needed at the average mine, while he is acquiring the experience and prestige necessary for more responsible and executive positions.

While the course is not especially exacting, it is severe and should be undertaken only by students well prepared mentally and in good health. To accomplish all the work well, the average student will have to devote seven or eight hours per day, six days per week, to his college work during the academic year.

### **Geology.**

2. **GENERAL GEOLOGY (3)**—The geological work of the atmosphere and water (including streams, lakes, the ocean, and underground water); glaciers and glaciation, organic agencies, igneous and sedimentary rocks, structural geology, diastrophism; historic geology. Recitations three times a week. *Text:* Branner's *Syllabus of General Geology*, supplemented by Chamberlin and Salisbury. *Prerequisite:* *Chemistry 1.*

**PROFESSOR PURDUE.**

3. **PRACTICAL GEOLOGY (3)**.—Field and laboratory work nine hours a week throughout the year, with the construction of geologic maps and sections, and topographic maps.

**PROFESSOR PURDUE.**

5. **CRYSTALLOGRAPHY AND MINERALOGY (3)**—(a) Lectures and recitations three hours a week during the first term on the elements of geometric crystallography.

(b) Laboratory work (two hours) three times a week following course (a) and extending through the year. Determination of minerals before the blowpipe, and in the wet way. *Text:* *Determinative Mineralogy*, Brush. *Required of students in geology, mining, and civil engineering*. *Prerequisite:* *Chemistry 1.*

**ASSOCIATE PROFESSOR STEEL.**

6. **SHORT COURSE FOR AGRICULTURAL AND CIVIL ENGINEERING STUDENTS (3)**—Lectures, supplemented by field work, on the geological work of the atmosphere and running water, the kinds, origin, and decay of sedimentary rocks; igneous rocks;

the origin and kinds of soil; structural geology; underground water; the origin of topographic forms. First term. *Prerequisite: Chemistry 1.* PROFESSOR PURDUE.

7. ECONOMIC GEOLOGY (3).—Lectures, with collateral reading, on the formation, modes of occurrence, uses, and geographic distribution of economic geologic products. Second term. *Required of students in geology and mining. Prerequisite: Chemistry 1, Geology 2.* PROFESSOR PURDUE.

8. ORIGIN AND ALTERATION OF ROCKS.—Lectures on the origin, destruction, and alteration of rocks, with special attention to metamorphism as related to ore deposits. Two hours a week for second term. *Required of Juniors in mining. Prerequisites: Geology 2; Chemistry 1.* PROFESSOR PURDUE.

### **Mining.**

1. INTRODUCTORY COURSE (2).—Descriptive treatment of a few of the more common methods of mining now practiced, preliminary to the study of actual mining during the summer vacation. A general basis for later detailed and critical courses. Lectures or recitation twice a week during second term. *Prerequisites: Chemistry 1; Physics 1; and one term of Geology 2.*

ASSOCIATE PROFESSOR STEEL.

2. DETAILS OF MINING OPERATIONS (2).—Methods, tools, rate of progress and comparative cost of; excavation of earth; drilling and blasting of rock; with a discussion of the nature and use of the common explosives, driving and timbering of mine tunnels in hard and soft ground, boring for various purposes, and shaft sinking and timbering in hard and soft ground. Lectures or recitations twice per week, with outside reading during the first and second terms. *Prerequisite: Mining 1.*

ASSOCIATE PROFESSOR STEEL.

3. MINING METHODS (2).—A critical study of the various methods of exploration, development, and working of mineral deposits, special methods for unusual conditions, hydraulic mining, extraction of valuable minerals by means of bore holes; comparisons of the advantages and disadvantages of different systems, practice in the selection of methods best adapted to certain given conditions, and in combining the good features

of different established systems of mining. Lectures or recitations twice a week the second term of one year, and three times a week the first ten weeks of the following year. *Prerequisites:* Mining 1 and 2. ASSOCIATE PROFESSOR STEEL.

4. ENGINEERING PROBLEMS OF MINES (3).—Surface and underground handling, transportation, and storage of minerals; mine buildings, trestles, ore bins, etc.; mineral railroads, common roads; water supply; drainage of mines; methods of ventilation; accidents to men; underground surveying. Lectures and conferences three times a week, first term, with outside reading, designing, and detailed drawing. *Prerequisite:* Mining 1.

ASSOCIATE PROFESSOR STEEL.

5. MINE PLANT (3).—Description and critical discussion of the mechanical equipment of mines; hoisting engines, ropes, skips, cages, and head frames; various types of pumping machinery; air compressors and the transmission of power by compressed air; machine drills; mine cars and tracks; underground haulage plant; practice in the selection of mining machinery from trade catalogues. Lectures and conferences three times a week, second term. Outside reading and detailed drawing. *Prerequisites or parallels:* Mining 1, 2, and 4; Mechanical Engineering 4 and 5.

ASSOCIATE PROFESSOR STEEL.

6. MINE ADMINISTRATION (3).—Organization of the staff of large and small mines, and duties of its members; purchase of supplies and disposal of product; management of labor and labor problems; elements of mining law; bookkeeping, and mine accounts, and requirement of cost sheets. Lectures and recitations three times a week, second term. *Prerequisite:* Mining 1.

ASSOCIATE PROFESSOR STEEL.

7. MINE EXAMINATIONS AND REPORTS (1).—Sampling of ore bodies; estimation of available and probable tonnage; methods of working out the essential geology of the deposit; form and character of the report. Lectures and recitations three times a week, last part of first term. *Prerequisites:* Mining 1 and 2; Geology 2, 5, and 8.

8. ORE DRESSING.—General principles and theory of ore dressing; hand dressing; cleansing; crushing; sizing and classifying; jigging sized and unsized products; table concentrating.

stamp milling of gold and silver ores; descriptions of typical ore dressing works; practice in outlining schemes of ore dressing under assigned conditions. *Text-book:* Richard's Ore Dressing. Recitations and conferences twice a week, two terms. *Prerequisites:* *Geology* 5; *Mechanical Engineering* 4 and 5.

ASSOCIATE PROFESSOR STEEL.

For the outline of the course in mining, see p. 81.

#### DEPARTMENT OF PHILOSOPHY AND PEDAGOGY.

The object of the courses offered in this department is (a) to afford general culture, (b) as being essential to those who expect to enter professional life, especially law, medicine, the ministry, and teaching.

For those contemplating the professions of law or journalism, the following courses are recommended: 1, 7, 8, 9, and 10; medicine: 1, 7, 8, 9, and 11; business: 1, 7, 8, and 9.

For the required course of study in the normal department, and the conditions under which the certificate of Licentiate of Instruction is granted, see pages 84 to 86.

1. DESCRIPTIVE PSYCHOLOGY (*first term*) (3) --This course serves as an introduction to both philosophy and pedagogy. The course is open to all students in the collegiate department. The different functions of the mind are studied from the physiological and experimental standpoint. It is intended to make it as concrete as possible - by a study of the nervous system, and by experiments to demonstrate the action and interaction between the mind and nervous tissue. Owing to its pedagogical value students are advised to take this course as early as possible in their college course. *Text-books:* Buell's Essentials of Psychology; Gordy's New Psychology. Section a, M. W. F. 1st period. Section b, M. W. F. 7.

2 (a) SCHOOL MANAGEMENT (1) --This course serves as a general introduction to teaching and school management. It is open to all students of the University -both preparatory and collegiate. It is especially designed for those students who



teach during the vacation or who expect to teach for only a short time. Students may attend these lectures without enrolling as members of the class. *Text-books*: Page's Theory and Practice of Teaching. F. 8.

(b) ART OF TEACHING (1) \*This course is subject to the same conditions as (a). The methods of teaching the common school branches will be discussed, illustrated by model lessons. Th. 8.

3. METHODS (2) The methods discussed are based on psychology. The broader generalizations of the science of education are studied, and the student learns to apply the principles of psychology to the work of teaching. This is a very practical course. During the first term the Methods of the Recitation is studied, the General Methods during the second term. Students may enter the second term. *Text-books*: McMurray's General Methods, and Method of the Recitation. T. Th. 1.

4. HISTORY OF EDUCATION (*second term*) (3) —This course includes a study of the educational systems and methods of ancient, mediæval, and modern nations, lives and theories of educational reformers, growth of education in the United States and in the state of Arkansas. *Text-books*: Boone's History of Education in the United States, Compayre's History of Pedagogy; Lives of Pestalozzi, and Horace Mann; Arkansas School Law. M. W. F. 1.

5. (a) EDUCATIONAL PSYCHOLOGY (*first term*) (3) — This course applies the principles of psychology to the schoolroom. It deals with the child as an educable being. It treats in minute detail the sources of interest, the characteristics of imitation, heredity, attention, memory, imagination, emotions, will, and character. Recitations, lectures, assigned readings, and reports. *Text-books*: Dexter and Garlie's Psychology in the Schoolroom, Hinsdale's Art of Study. *Prerequisite*: Course 1. M. W. F. 2.

(b) CHILD STUDY (*second term*) (3) — In this course it is intended to make a practical application of the principles studied in (a) by studying the characteristics of children as seen in the schoolroom, at home, and on the playground. Topics assigned and references to pedagogical library.

6 THE SUPERINTENDENT'S COURSE (2).—This course discusses matters of practical school organization and management. Such subjects are discussed as school revenues and expenditures, school sanitation and decoration, course of study, duties of superintendent and teachers in relation to school and community, philosophy of government, etc. *Text-books:* King's School Interests and Duties, Spencer's Education. References to pedagogical library.

7 PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY (2). A general course illustrated by physiological and experimental demonstrations. One period will thus be given to discussions and recitation. The other period will consist of two hours' laboratory work in experimentation. The giving of this course will depend on whether or not the psychological laboratory is equipped by the opening of the first term of 1905-1906. *Text-books:* Ladd's Outlines of Physiological Psychology; Scripture's New Psychology.

8 ABNORMAL PSYCHOLOGY (1). This course is designed to supplement course 1, and to discuss especially the physiological conditions and mental phenomena of sleep, dreams, hypnotism, somnambulism, sanity, insanity, illusions, hallucinations, mind reading, etc. This, as well as course 1, will be especially valuable to those students who expect to study law or medicine. It is intended to throw light on many of the peculiarities of mental life as exhibited in mankind. Lectures, discussions, and recitations. *Text-books:* Moll's Hypnotism; M. de Manacine's Sleep, Parish's Hallucinations and Illusions; Lombroso's The Man of Genius. No *prerequisite* (though desirable to be accompanied or preceded by course 1).

9 LOGIC (*second term*) (3).—This course should follow course 1. *Text-book:* Creighton's Introductory Logic. M. W. F. 7

10 (a) ELEMENTS OF ETHICS (*first term*) (2).—The bearing on the rural standing of the theories of evolution, sociology, biology, economics, and political economy, as applied to real life. *Text-book:* Seth. References, Mackenzie, Mortiman and Jenet.

(b) INTRODUCTION TO PHILOSOPHY (*second term*) (2).—This course is designed to present in an elementary way the principal

philosophical problems. It may properly be taken by all who desire an acquaintance with philosophy as a means of culture.

Emphasis will be laid upon the philosophy of life and of conduct in connection with the discussion of problems in ethics, æsthetics, and the philosophy of religion. The problems will also be studied from the historical standpoint, which will involve the study of some of the theories of philosophical writers. *Text-books:* Paulsen's *Introduction to Philosophy*; Bowne's *Theory of Thought and Knowledge*.

11. PRINCIPLES OF EVOLUTION (1).—A discussion of the underlying facts, the methods of scientific research, and the philosophical problems upon which the modern philosophy of evolution is founded. This course will consist of lectures and the study of a text-book.

#### MECHANICAL ENGINEERING.

B. N. WILSON, *Professor, and Superintendent of Mechanic Arts.*

T. C. TREADWAY, *Adjunct Professor, and Assistant Superintendent of Mechanic Arts.*

W. A. HARDING, *Machinist.*

Two courses are offered, a four-year course leading to the degree of B. M. E. (see p. 76), and a short course of two or three years (see p. 87), depending upon the preparation of the student.

While the major part of a course in mechanical engineering necessarily consists of scientific and technical studies, the four years' course provides for instruction in English and the modern languages, and offers electives that may be taken in other than technical subjects.

Besides the mathematical and scientific studies which constitute the necessary preparation for the study of the engineering branches, instruction is given in mechanics, machine design, theory of steam and gas engines, etc. Special attention is given to the practical

application of the truths and theories taught in the class room, a large part of the time being devoted to shop work, drawing and laboratory practice.

Sufficient instruction is given in the theory and use of electrical machinery to enable the student to use it intelligently.

In the second term of the Senior year the student is offered an elective in the branch of mechanical engineering in which he wishes to specialize.

**SHOP WORK (hours as assigned).**

1. (a) **WOODWORKING.**—Principles of carpentry and joinery; exercises in wood turning.

(b) **FOUNDING.**—Green sand molding; melting and pouring brass and iron.

(c) **FORGING.**—Management of fire; drawing and welding; riveting and tempering; case hardening and annealing.

(d) **PATTERNMAKING.**—Practice in making patterns; care and use of woodworking machinery.

(e) **IRONWORKING.**—Chipping; filing; turning; planing; drilling; grinding; erection of machinery.

(f) **ADVANCED WORK** in any of the courses above.

2. (a) **MECHANICAL DRAWING (2 or 4).**—Lettering, geometrical drawing; copying machine drawings; working drawings from machine parts; tracing; blue printing. M. T. 6, 7.

(b) **MECHANICAL DRAWING.**—Perspective and isometric drawing; intersections; developments; detail drawing; blue printing.

3. **MACHINE DESIGN (3)**—Kinematics of machinery; design of gear teeth, cams, link motions, etc. One hour's recitation and four hours' drawing per week. M. 4, T. 6, 7.

4. **MECHANICS AND HYDRAULICS (4).**—Statistics and dynamics, strength of materials, hydraulics. Four recitations per week for one year. *Text-book:* Mechanics of Materials and Hydraulics, Merriman; Wright's Mechanics. M. T. W. Th. 1.

(a) **ELEMENTARY MECHANICS.**—An elementary course in mechanics and hydraulics. *Prerequisite:* First Preparatory Mathematics.

\*5. STEAM MACHINERY AND GAS ENGINES (3). —Elementary thermodynamics; comparison of types of steam engines, gas engines, boilers, etc.; valve gears. T. Th. F. 3.

5a. STEAM ENGINES AND BOILERS (3) —Elementary theory of steam engines and boilers care and management of same; valve gears. Three hours per week one year *Prerequisite: Sub. Freshman Mathematics.* T. Th. F. 3.

6. EXPERIMENTAL ENGINEERING (2) —Calibration of engineering instruments, indicators, steam gauges, planimeters, nozzles, meters, weirs, etc., tests of the materials of construction in tension, torsion, compression, and bending; valve setting. *Text-book:* Experimental Engineering, Carpenter. Four hours laboratory work per week. W. 4, 5, 6, 7.

7. MACHINE DESIGN (4) —Theory of steam and gas engines; problems in steam engine and boiler design. One recitation, six periods of drawing.

8. EXPERIMENTAL ENGINEERING (2). —Complete tests of the different types of steam engines, boilers, pumps, gas engines, oil engines, turbines; special investigations.

9. TURBINES AND PUMPS (2). —A study of the design, construction and operation of steam turbines, water wheels, and pumping machinery. Two recitations per week. Th. 4; F. 2.

10. METHODS OF ICE MAKING; COLD STORAGE (2) —Ice-making machinery. Two hours per week for one term.

11. HEATING AND VENTILATING (3). —Principles of ventilation; the different systems of heating by steam, hot water, and air; specifications. Three hours per week for one term.

12. STEAM ENGINEERING (4). —Mechanical engineering of power plants; selection of machinery for the equipment of power stations; plans and specifications. One lecture and six hours drawing per week, second term. *Prerequisite:* M. E. 5.

13. MACHINERY AND MILL WORK (4). —Discussions of the different methods of distributing power in mill work; considerations controlling the design of the power plant; specifications. One hour's lecture and six hours' drawing per week, second term.

14. RAILROAD ENGINEERING (4). —Design and construction of locomotives, repairs for rolling stock, discussion of the

\*Courses 5 and 5a may be taken for one term.

problems relating to the mechanical engineering of railroads. One hour's lecture and six hours' drawing per week, second term. *Prerequisite: M. E. 5.*

#### CIVIL ENGINEERING.

J. J. KNOCH, *Professor.*

V. P. KNOTT, *Instructor.*

The design of this department is to furnish a course of theoretical instruction, accompanied by illustrations and as much of engineering practice as can well be taught in schools. This course will give the student a knowledge of the fundamental principles required to enter intelligently upon the various branches of engineering belonging to this profession.

The special technical studies, which are offered in this course, may be grouped under the heads of surveying, applied mechanics, road and railroad engineering, hydraulic engineering, bridge engineering, and sanitary engineering. A general outline of the course is found on page 77.

*Instruction.* The work in surveying extends over three years. It embraces land surveying, leveling, and United States public land surveys during the Sophomore year; topography, railroad reconnoissance and location during the Junior year; triangulation and geodesy during the Senior year. Much time is devoted to practice in the field and drafting room, this work being carried on parallel with the classroom work. Each year a party of engineering students go into camp one week for practice in surveying and locating railway lines.

1. DESCRIPTIVE GEOMETRY (2). —Recitation and practice, first term. *Text-book:* Church's Descriptive Geometry. Engineering Hall Th. 8:30-9:30; M. 1:30-3:20.

1a. DRAWING (2) —Selection and care of instruments. Drawing geometrical figures, conventional representation of



materials, copying and tracing working drawings; and drawing from models. Two afternoons throughout the year. Engineering Hall. T. W. 1:30-3:20.

2. SURVEYING (*with* 3) (3).—First, and part of second, term. Care, use, and adjustment of instruments; use of chain, tape, compass, transit, solar attachment, level, sextant, and plane table; land surveying, leveling, contouring, laws, and instructions relating to surveys of the public domain. *Text-book:* Raymond's. Engineering Hall. M. W. 10:20-11:15.

3. FIELD PRACTICE.—Exercises in land, city, and topographical surveying. One afternoon throughout the year. Th. 12:40-4:00.

4. HIGHWAYS (1).—One hour per week, second term. The location, construction, and maintenance of common, Macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. *Text-book:* Spalding's Roads, Streets, and Pavements. Engineering Hall. Th. 8:30-9:25.

4a. ARCHITECTURAL DRAWING (1).—One hour per week, second term. Elementary course in architecture; drawing plans and elevations of simple structures; analysis of plans. F. 1:30-3:20.

5. RAILROAD ENGINEERING (2).—Two hours per week throughout the year. Preliminary surveys and location; transition curves, yards, and turnouts; estimates of earthwork and material used in construction; the economics of railroad location and management. *Text-books:* Searle's Field Engineering, and Crandall's Transition Curve and Earthwork Computations, first term; Wellington's Economic Theory of Railway Location, second term. Engineering Hall. T. Th. 10:20-11:15.

6. FIELD PRACTICE (2).—Location of curves, turnouts, and Y's; measurement of embankments and cuts, and computation of volumes. Four hours a week throughout the year. F. 12:40-4:00.

7. RAILROAD SURVEY.—One week, twelve hours per day. Actual field practice in reconnoissance, preliminary survey, and location.

8. DRAWING (2).—Lettering titles for maps and drawings. Pen and colored topography. Four hours a week throughout the year. Engineering Hall. Th. F. 11:15-1:35.

8a. DRAWING (2). —Lectures and practice two afternoons a week throughout the year. Shades, shadows, and perspective. Topographical and railroad maps from actual surveys; masonry dams, structural details, and working drawings for designs. Engineering Hall. M. W. 8:30-10:20.

9. MASONRY CONSTRUCTION (2). Two hours per week, first term. Use of lime, and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams, cribs, and caissons. *Text-book:* Baker's Masonry Construction. Engineering Hall. W. Th. 11:15-12:10.

10. ROOFS AND BRIDGES (3). —Four hours per week, first term; three hours, second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs, and bills of material for a roof truss and railroad bridge. *Text-books:* Merriman and Jacoby's Roofs and Bridges, Parts I, II., and III. Engineering Hall. M. T. W. F. 8:30-9:25.

11. SANITARY ENGINEERING (2). —Two hours per week, first term. Calculation and special details of construction of sewers, separate and combined systems of sewerage; purification of sewage; municipal and domestic sanitation. *Text-book:* Baumeister's Cleaning and Sewerage of Cities. Engineering Hall. W. Th. 9:25-10:20.

12. TECHNICAL DRAWING (2). Lectures and practice, four hours per week throughout the year. Right and oblique arches; drawings for computations of course 10. Engineering Hall. T. W. 1:30-3:20.

13. WATERWORKS ENGINEERING (3). —Three hours per week, second term. Study of systems of water supply, collection, purification, and distribution of water; location of waterworks, with details of estimate of cost; turbines and pumping engines. *Text-book:* Folwell's Water Supply Engineering. Engineering Hall. W. Th. F. 9:25-10:20.

14. ENGINEERING LABORATORY (2). —Two hours per week, first term. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone, and cement, flow of water through pipes, elbows, valves, and measurement by means of weirs. Engineering Hall. F. 12:40-4:00.

15. FIELD PRACTICE (2).—Two hours per week, first and second terms. Topographical survey, triangulation, precise leveling, and practical astronomy. Th. 12:40-4:00.

16. CONTRACTS AND SPECIFICATIONS (3).—Elective for Seniors in Engineering. Lectures and recitations three times per week. *Text-books:* Johnson's Contracts and Specifications; Wait's Engineering and Architectural Jurisprudence Engineering Hall. M. T. W. 9:25-10:20.

#### ELECTRICAL ENGINEERING AND PHYSICS.

W. N. GLADSON, *Professor.*

H. SCHAPPER, *Instructor.*

J. R. BLOOM, *Assistant.*

Two courses of instruction are offered in electrical engineering. The four years' course described on page 78, is intended to afford a good general education, and at the same time to ground the student so thoroughly in the principles of electrical engineering as to furnish a good foundation for the profession.

Theoretical and applied electricity and the mechanics of engineering are naturally the leading subjects.

Theory is amply treated and tested by experiments in well equipped laboratories, thus affording the student a degree of facility in the use of instruments and machines which is acquired only by continued practice. As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of special study. The subject of such study must lie within the field of electrical engineering. It must be announced not later than the beginning of the second term of the Senior year, and be approved by the professor in charge. The completed thesis must be submitted not later than two weeks before commencement day, and one copy must be deposited in the library as the property of the University.

The short course of two years described on pp. 87-8 is designed for students lacking time and preparation for the full course, and is intended especially for those who have had some practical experience in engineering. The work is more elementary than in the long course, embracing only the necessary mathematics, which, with electrical engineering and laboratory work, gives the student sufficient theory, supplemented by practice in the shortest possible time. Four courses are offered in physics, and additional work may be arranged for by any student selecting his major in this department.

1. ELECTRICAL ENGINEERING (5).—Recitation, lectures, and practice, five times a week throughout the year. Installation and operation of electrical machinery, underwriter's rules; calculations, estimates; specifications, and practical work. *Text-books*. Management of Dynamos and Motors, by Croker and Wheeler; and Electricity and Magnetism, by Thompson. Engineering Hall. M. F. 3.

ASSISTANT BLOOM.

3. TECHNICAL DRAWING (2).—Lectures and practice two afternoons a week throughout the year. Working drawings or electrical apparatus, wiring plans designed by student. Engineering Hall, 2d floor. M. T. 6, 7.

PROFESSOR GLADSON and ASSISTANT BLOOM.

3a. DRAWING (2).—Use and care of instruments; copying of mechanical drawings and wiring plans, drawing of machine parts. Engineering Hall, 2d floor. T W 6, 7.

ASSISTANT BLOOM.

4. TECHNICAL DRAWING (2).—Lectures and practice four hours a week throughout the year, an extension of course 3, and must be preceded by it. Drawings of circuit and machine, electrical calculations, and mechanical designs of electrical machinery; complete power plants designed by student. Engineering Hall, 2d floor. M. T. 6, 7.

PROFESSOR GLADSON.

5. ELECTRICAL LABORATORY (2).—One afternoon a week throughout the year. An extended course in magnetic and

electrical measurements; current, electro-motive force, and resistance; use and calibration of instruments, voltmeters, and potentiometers; exploration of magnetic fields; dynamo work begun. Engineering Hall, basement. Th. 5, 8.

PROFESSOR GLADSON and ASSISTANT BLOOM.

6. ELECTRICAL LABORATORY (4).—One afternoon a week throughout the year. This is an extension of course 5, and must be preceded by it. A full experimental course in operating and testing direct and alternate current machines; photometry transmission, storage, and transformation of electric energy. Special courses given suited to the preparation and object of the student. Engineering Hall, 1st floor. F. 5, 8.

PROFESSOR GLADSON.

7. DYNAMO-ELECTRIC MACHINERY (3).—Recitations three hours a week throughout the year. Confined chiefly to direct current apparatus, including types of motors, generators, and transformers; design, calculations, construction, testing, and operating. *Text-book*: Thompson's Dynamo Electric Machinery. Engineering Hall, 1st floor. M. T. W. 2.

INSTRUCTOR SCHAPPER.

8. THEORY OF ALTERNATE CURRENTS (3).—Recitations three times a week, first term. *Text-book*: Sheldon's Alternate Currents; Machines. Engineering Hall, 1st floor. M. T. W. 1.

PROFESSOR GLADSON.

9. POLYPHASE ELECTRIC CURRENTS (3).—Recitations and lectures three times a week, second term. *Text-book*: Thompson. Engineering Hall, 1st floor. M. T. W. 1.

PROFESSOR GLADSON.

10. ELECTRIC RAILWAYS (2).—Recitations and lectures twice a week, second term. *Text-book*: Electric Railway Engineering, by Trevert. Engineering Hall, 1st floor. Th. F. 2.

PROFESSOR GLADSON.

11. TELEPHONY AND TELEGRAPHY (2).—Lectures and recitations twice a week throughout the year. *Text-books*: Preece's Telephone, and Commercial and Railway Telegraphy, by Abernathy. Engineering Hall, 1st floor. Th. F. 1.

PROFESSOR GLADSON.

12. ELECTRICAL MACHINERY (3).—Recitations three times a week on direct and alternate current dynamos and motors;

their application to light, power, railway mining, and manufacturing. *Text-book:* *Dynamo Electric Machinery*, by S. Sheldon. Engineering Hall, 2d floor. M. T. W. 1.

INSTRUCTOR SCHAPPER.

### PHYSICS.

1. GENERAL PHYSICS (3).—Lectures with demonstrations three hours a week throughout the year on mechanics; heat; light; sound; electricity and magnetism; wave motion. Science Hall. M. W. F. 3.

PROFESSOR GLADSON.

INSTRUCTOR SCHAPPER.

1a. PRECISION OF MEASUREMENTS ( $1\frac{1}{2}$ ).—Lectures. A discussion of physical measurements, errors, sources of errors, accuracy of results; methods of least squares, etc. One hour a week, second term; two hours a week, first term.

INSTRUCTOR SCHAPPER.

1b. GENERAL PHYSICS ( $1\frac{1}{2}$ ).—Laboratory work three hours a week one year. *Prerequisite:* *Physics 1*.

PROFESSOR GLADSON.

INSTRUCTOR SCHAPPER.

2. LECTURES AND RECITATIONS.—Two hours a week one year on statics; dynamics; magnetism; electricity; photometry, etc.

INSTRUCTOR SCHAPPER.

2a. LABORATORY WORK.—Two hours a week one year. Advanced accurate measurements on statics; dynamics; magnetism; electricity; photometry.

INSTRUCTOR SCHAPPER.

3. VECTOR ANALYSIS (1).—One hour a week first term. A discussion of the subject of vectors as applied to physics.

INSTRUCTOR SCHAPPER.

4. THEORETICAL ELECTRICITY (2).—Two hours a week one year. Maxwell's theory, etc. *Prerequisite:* *Vector Analysis* and *Differential Equations*.

INSTRUCTOR SCHAPPER.

### AGRICULTURE AND HORTICULTURE.

*Special Notice.*—New and thorough courses in agriculture, horticulture, entomology, dairying, and veterinary science will be established at the Experiment Station, beginning with the September, 1905, term.



Short winter courses in the above-mentioned studies will also be offered.

The course of study and full information concerning it will be published about July, and can be had upon application to

W. G. VINCENHELLER,

*Director, Arkansas Agricultural Experiment Station.*

The course in agriculture or in horticulture leads to the degree of Bachelor of Science. The entrance and graduation requirements with agriculture or horticulture as a major will be found under the general requirements for entrance and graduation on pp. 52 and 75-6. The course for the degree of B. S. A. will be arranged by the professor of agriculture or the professor of horticulture, to whom all students in these subjects should report for classification at the beginning of the year. Students are advised to decide upon their major subjects as early in their college career as possible. This will unify their course and give purpose to all their university work.

Agriculture and horticulture are comprehensive-composite subjects, the principles upon which they are based being derived from a number of sciences. The course in either subject is a university course, with special attention to the sciences as they relate to agriculture or horticulture as the major subject. While in a sense a specialist, the specialist in agriculture or horticulture is less a specialist than in almost any other field. The full course of study, while ultimately practical, is intended to afford a training as broad as any other course, and equal in educational value.

Nearly everyone at sometime or other in life has to do with lands and the planting of trees or gardens, if not for money considerations, then for pleasure. Some of the

subjects offered in agriculture and horticulture are therefore of value to students in other departments as practical parts of a liberal education. Some of the studies may be included by such students as electives.

The course of instruction aims throughout to give the student a grasp of fundamental principles and at the same time furnish opportunity for observing their practical application to the extent of rendering him independent of mere arbitrary rules of practice. The student is encouraged to discover, plan, and execute for himself, and he is aided in this by his association with specialists in the lines which he is pursuing, and by constant opportunity to observe the farm, orchard, and garden work of the national agricultural experiment station connected with the University.

In addition to the theoretical work, the student is expected to acquire a degree of practical skill—to become familiar with the best methods, and the use and care of implements and machinery.

#### Agriculture.

G. A. COLE, *Professor.*

1 (a) SOILS—Their origin, classification, properties, and relation to animal and plant production; drainage; irrigation; tillage—Three hours per week, first term—M. W. F. 4.

(b) FARM CROPS—Manures and fertilizers; grain crops; hay and pasture crops, root crops, fiber and miscellaneous crops. Three hours per week, second term—*Required of Freshmen in the Agricultural Course.*—M. W. F. 4.

2 (a) FARM BUILDING, MACHINERY AND TOOLS.—Location, construction, and management of stables, barns, dairies, silos, piggeries, sheepfolds, poultry houses, roads, and fences. Farm machinery and tools, water supply—Two hours per week, first term.—T. Th. 2.

(b) FARM ANIMALS—General discussions of the various animals usually on a farm, their breeding, feeding, care, and

the production of feeds for the various classes. Two hours per week, second term. *Required of Sophomores in the Agricultural Course.* T. Th. 2.

3. (a) RURAL ECONOMY.—General farm management; labor; marketing; transportation. Two hours per week, first term. T. Th. 1.

(b) EXPERIMENTS.—Records and discussions of experiments conducted by the experiment stations. Two hours per week, second term. *Required of Juniors in the Agricultural Course.* T. Th. 1.

4. SPECIAL FARMING.—(a) Live stock in general; (b) cattle; (c) swine; (d) sheep and goats; (e) poultry; (f) animal breeding; (g) animal feeding; Each subject two hours per week, first term. *Four hours required of Seniors.* W. F. 3.

(b). (h) Grain crops; (i) cotton; (j) root crops; (k) forage, soiling crops and the silo; (l) hay, pasture and green manuring crops; (m) plant breeding; (n) fertilizers and their uses. Each subject two hours per week, second term. *Four hours required of Seniors.* W. F. 3.

#### Horticulture.

ERNEST WALKER, *Professor.*

1. (a) PHYSIOLOGY OF PLANTS.—A study of the subject from the horticultural standpoint. Fall term, three hours. T. Th. F. 3.

(b) THE PRINCIPLES OF PLANT BREEDING.—Environment; variation; heredity; cross-pollination; selection; improved varieties; evolution of fruits and vegetables. Spring term, three hours. *Required of Freshmen in the Horticultural Course.* M. W. F. 3.

2. (a) HORTICULTURAL STRUCTURES AND CONVENIENCES.—Hot-beds; cold frames; pits; greenhouses; materials; construction; greenhouse heating; ventilation; management; implements. Fall term, two hours. M. W. 2

(b) PROPAGATION OF PLANTS.—The various methods by which plants are multiplied; spores, seed, cuttings, budding, grafting, transplanting. Spring term, two hours. *Required of Sophomores in the Horticultural Course.* M. W. 2.

3. (a) **FRUIT CULTURE** -Orcharding; viticulture; small fruits, with reference to kind and varieties best adapted to the state; cultivation; marketing; including insects, diseases, spraying and other methods of control. Fall term, two hours. T. Th. 4.

(b) **VEGETABLE GARDENING.** -Studies in the growing of the principal vegetables adapted to the state, for home use and market; insects; diseases. Spring term, two hours. *Required of Juniors in the Horticultural Course.* T. Th. 4.

4. **SPECIAL WORK AND PRACTICE.** -(a) Handicraft. Throughout the year, two hours. (b) \*Horticultural literature. Fall term, one hour. (c) Decorative gardening. Spring term, two hours. (d) \*Forcing of vegetables and flowers. Fall term, two hours. (e) \*Forestry. Fall term, two hours. (f) \*Special studies and reports. Spring term, one hour. *At least four hours required of Seniors.* Hours by appointment.

#### **MILITARY SCIENCE AND TACTICS.**

CAPTAIN R. B. POWERS, U. S. A., *Professor.*

The head of the military department is an officer of the United States Army, detailed by the war department for duty at the University.

All male collegiate students are required to take the theoretical course, and all male students over fifteen years of age, not physically disabled, are required to take the practical course in military science, the latter including infantry drill, target practice, camping, guard duty, and various other exercises, the course covering the entire period of the student's stay at the University.

The act of congress donating public lands for educational purposes requires that institutions which are the beneficiaries of such donations include military science and tactics in their course of instruction.

The system of practical instruction closely follows that used in the United States Army. It contains a

\*Courses marked \* open only to third and fourth year collegiate students

course of gymnastic exercises for the development and improvement of the arms, chest, legs, hands and feet. Besides being excellent physical training, this instruction has many advantages mentally. The necessity of being alert, listening for each word of command, and acting promptly on it, quickens the wit and cultivates the habit of fixing the attention and concentrating the thoughts. In addition to all this, it inculcates in the student a respect for authority and discipline which is equalled by no other system.

The cadets are organized into one battalion, composed of field staff, band and six companies. The officers and non-commissioned officers are selected from those students who are most proficient in their drill and military studies, and most exemplary in their deportment, the captains and lieutenants being taken, usually, from the Senior and Junior classes, and sergeants and corporals from the Sophomore and Freshman classes. An office in one of the battalions is one of merit and distinction, and any unbecoming conduct subjects the appointee to reduction to the ranks.

The cadet band, of some twenty pieces, constitutes an interesting feature of the military organization. It receives the best instruction obtainable, practices three hours per week, and takes part in all military ceremonies.

A competitive drill is held annually at the close of the college year, when prizes are awarded for proficiency in this department.

The three students of the Senior class having the highest grade of merit in this department are reported to the secretary of war, and their names recorded in the adjutant general's office and published in the army register for that year. The president of the United States

in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers on graduation are brevetted in the state guard with the rank held by them in the cadet battalion at the date of their graduation, and recommendations of the commandant of cadets as to special military qualifications of the graduates of the military course.

The following is prescribed as the minimum course of military instruction, practical and theoretical:

(a) PRACTICAL. -Infantry drill regulations, through the school of the battalion in close and extended order; advance and rear guards, and outposts; marches; the ceremonies of battalion review, inspection, parades, and escort of the colors; thorough instruction in the duties of sentinels, and the ceremony of guard mounting; infantry target practice; instruction in first aid to the injured.

(b) THEORETICAL. -The infantry drill regulations covered by the practical instruction; the manual of guard duty, small arms firing regulations, parts I., II., and VII.; the articles of war, with special reference to articles 4, 8, 15, 20, 21, 22, 23, 24, 32, 38, 39, 40, 42, 44, 46, 47, 50, 55, 57, 61, and 65; and the following records: Enlistment and discharge papers, including the descriptive lists; morning reports; field and monthly returns; muster rolls; rosters; ration returns; requisitions; established property returns.

## THE PREPARATORY SCHOOL.

Fayetteville.

JAMES WYSE KUYKENDALL, PRINCIPAL,

*Mathematics.*

703 W. Dickson St.

Teacher in Public Schools of Texas and Arkansas, 1889-1897; Deputy State Superintendent of Public Instruction, 1897-1901; State Superintendent of Public Instruction, *ad interim* 1898, present position since 1901; Chairman, Board of Trustees, Arkansas Teachers' Association, since 1902.

EMMA WILMER COLE, B. A. . . . . 763 W. Dickson St.

*History, Latin, and Mathematics* (Resigned Jan. 18, 1905).

B. A. Montgomery Female College, 1875; Teacher in Public Schools of Virginia, 1875-1880, Student, Summer School, University of Virginia, 1880; Teacher



in Public Schools, Danville and Salem, Virginia, 1880-1884; Teacher in Trinity College, Virginia, 1884-1885; Teacher in Public Schools of Arkansas, 1885-1893, present position since 1893.

MARY ANNE DAVIS.....327 Washington Ave.  
*English and History.*

Graduate of Hamilton College, Lexington, Kentucky, 1888; Teacher in Public Schools, 1890-1892; present position since 1893; Course in English, University of City of New York, 1895, and University of Chicago, 1899.

MARY WHITFIELD VAULX.....432 N. College Ave.  
*English and History.*

Graduate of St Mary's School, Memphis, Tennessee, 1889; Teacher in Public Schools, 1890-1899; Student, University of Arkansas, 1899-1900; Teacher, Public Schools, Pine Bluff and Little Rock, 1900-1902; present position since 1902. Summer course in English, Harvard University, 1904.

ROBERT EDWARD PHILBECK, B. A. . . . .200 S. College Ave.  
*Mathematics.*

Teacher in Public Schools, 1896-1898; B. A., University of Arkansas, 1900; Graduate Student, University of Arkansas, 1901; Principal, Fayetteville, Arkansas, High School, 1901-1902; present position since 1902.

NAOMI JOSEPHINE WILLIAMS, A. M. . . .607 W. Dickson St.  
*Latin and History.*

B. L. L., University of Arkansas, 1880; Private school teacher 1880-1885; A. M., University of Arkansas, 1884; Teacher in Public Schools 1885-1887; present position since 1887; Student, University of Michigan, 1891-1892.

DAISY YOUNG, B. A. . . . .358 Arkansas Ave.  
*Mathematics.*

B. A., University of Arkansas, 1900; Teacher, Springdale, Arkansas, College, 1900-1901, Teacher, Springdale Public School, 1901-1903; Teacher, Hendrix Academy, Gentry, Arkansas, 1903-1904; present position since 1904.

JESSIE MELLVILLE McKAY... . . . .224 W. Dickson St.  
*English, History, and Physiology.*

Teacher in Fort Smith Public Schools, 1901-1902; Student, University of Tennessee, 1902-1904; present position since 1904.

GENEVIEVE CHRISTINE BRODERSEN, B. A.  
*English, Latin, and Mathematics.* . . . .358 Arkansas Ave.

B. A., Bardstown, Kentucky, Male and Female Institute, 1898; Teacher in the same institution, 1898-1899; present position since 1904.

MABEL SUTTON, B. A. . . . .121 W. Dickson St.  
*History, Latin, and Mathematics.*

B. A., University of Arkansas, 1902; Teacher in Public Schools of Little

Rock, 1902-1903; Graduate Student, University of Arkansas, 1903-1904; present position since January 18, 1905.

Instruction in German, civics, physics, nature study, pedagogy, woodworking, forging, and drawing is given by collegiate professors.

This school is maintained: *First*, to prepare students for admission to the Freshman class in any course in the University; *Second*, to furnish as good an education as practicable to those who do not wish to pursue an extended course; *Third*, to provide a suitable course for those preparing to teach in the public schools who find it impracticable to take the University normal course.

Students seeking to enter the preparatory school should be thoroughly prepared for examination in the subjects required for admission to the class to which they seek entrance.

#### Requirements for Admission to the First Year Class.

Students desiring to enter the first year class will be examined in the following:

1. *Arithmetic*. The whole of common school arithmetic; an accurate knowledge of the properties of numbers, fractions, measurements, etc., and a good general knowledge of percentage and its applications.

2. *English Grammar*. The fundamental principles of English grammar and composition.

3. *United States History*. The leading facts in American History.

4. *Geography*. The whole of some complete manual of geography.

5. *Spelling and Writing*. Proficiency in these subjects is tested by the examination papers.

**Requirements for Admission to the Second Year Class.**

Students desiring to enter the second year class will be examined upon the following:

1. *Arithmetic.* A thorough and accurate knowledge of the whole of common school arithmetic.
2. *Algebra.* Academic algebra to simultaneous equations.
3. *English.* English grammar completed, and elementary composition.
4. *History.* An advanced United States history, studied with special reference to growth and development.
5. *Latin.* Bennett's Latin Lessons, or its equivalent, and easy sight reading. (Required of those desiring to study second year Latin.)
6. *Physical Geography.* Davis's Elementary Physical Geography or its equivalent. (Required of those desiring to take second year sciences.)

NOTE. — Students entering after the session has begun will be examined also in the work passed over by their class. Students who hold first grade teachers' licenses and who have had experience in teaching, will be admitted, without examination, to the second year class in the subjects covered by the licenses. Other grades of teachers' licenses and certificates of work done in other schools will be recognized to some extent in classifying students. A student should always bring with him all report cards and certificates of school work.

**Examinations at Places Other Than Fayetteville.**

Students living at a distance from the University may obtain special local examinations, if applied for in due time before the beginning of each session. The questions will be sent on application to the principal of any school or to any county examiner. The questions must be submitted by the principal or county examiner to the

candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his endorsement that the examination was properly conducted.

#### **Courses of Study in the Preparatory School.**

The preparatory school consists of two sub-college classes, and students are required to complete sixteen hours' work in the first year class, and seventeen hours' work in the second year's class as a condition of promotion to the University Freshman class. A student, having completed the prescribed preparatory work in any subject, may be admitted to the Freshman class therein, provided no preparatory study is omitted for this purpose.

Special courses of study are not advised in the preparatory school, but students known to be in poor health or having physical defects which interfere with their studies, may be permitted by the faculty to defer one or more subjects and extend the course over a longer period.

The classification of preparatory students is governed by the rule stated under "Classification of Students," pp. 61-2. Studies in lower classes have precedence of higher ones. Students cannot, therefore, omit studies in the preparatory school and take up collegiate courses except in such cases as may be allowed by the faculty under paragraph 3, page 62.

The completion of thirty-three hours of the following work is required for entrance to the Freshman class in either the B. A. or B. S. course, and twenty-six hours for entrance to the Freshman class in any of the engineering courses.

FIRST YEAR CLASS.	Hrs. per week	SECOND YEAR CLASS.	Hrs. per week
REQUIRED WORK, 12 hours		REQUIRED WORK, 13 hours	
Arithmetic.....	2	Algebra.....	2
Algebra.....	3	Plane Geometry.....	4
English.....	4	English.....	4
History of the United States, and Arkansas.....	3	History of Greece and Rome.....	3
ELECTIVE WORK (selected from the following), 4 hours		ELECTIVE WORK (selected from the following), 4 hours	
Latin.....	4	Latin.....	4
German.....	4	German.....	4
Physical Geography.....	3	Physiology.....	2
Nature Study.....	1	Physics.....	2
Woodwork.....	2	Civics.....	2
Forge Work.....	1	Drawing.....	2
TOTAL 16 hours.....		TOTAL 17 hours.....	

NOTE.—Students desiring to take the course leading to the B. A. degree must elect either Latin or German in the preparatory classes. Students desiring to take the course leading to the B. S. degree may elect any four hours' elective work in each year. Those desiring to take any of the engineering courses may omit the history of Greece and Rome, and may elect any four hours of elective work.

#### Teachers' Course.

This course has been arranged for students who do not desire to take a full course at the University, but who wish to qualify themselves to teach in the public schools of this state.

FIRST YEAR CLASS.	Hrs. per week.	SECOND YEAR CLASS.	Hrs. per week.
Arithmetic.....	2	Algebra.....	2
Algebra.....	3	Plane Geometry.....	4
English.....	4	English.....	4
History of the United States, and Arkansas.....	3	History of Greece and Rome.....	3
Civil Government.....	2	History of Medieval and Mod- ern Europe.....	3
Physiology 2, Pedagogy 1.....	3	Pedagogy 3.....	2

NOTE. Students desiring to prepare for the normal course (see pp. 84-6), should take the preparatory course with Latin. In this teachers' course it is intended that the completion of the first year's work shall prepare the student for a first grade license, and the completion of the second year's work for a professional license.

Detailed Work of Courses.

FIRST YEAR CLASS.

MATHEMATICS, 5. —Higher arithmetic, text to be selected; Milne's Academic Algebra to Simultaneous Equations.

ENGLISH, 4. —(1) *English Grammar*: Maxwell's Advanced Grammar. (2) *Composition*: dictation; letter writing; class-room themes, one each week, written and rewritten, based on assigned general reading, with special attention given to spelling, punctuation, paragraphing, and idiomatic expression. (3) *For General Reading*: Irving's Life of Goldsmith; Addison's Sir Roger de Coverley; Lowell's Vision of Sir Launfal; Coleridge's Ancient Mariner. (4) *For Careful Study*: Macaulay's Essay on Addison; Burke's Speech on Conciliation. (5) *For Memorizing*: Coleridge's Ancient Mariner; Lowell's Vision of Sir Launfal.

LATIN, 4. —Bennett's Latin Lessons; Collar's New Gradatim.

GERMAN, 4. —Lange's German Method; translation from German into English, elementary exercises in translating into German; memorizing of easy German songs.

HISTORY, 3. —Eggleston's New Century History of the United States and other texts for collateral study.

GEOGRAPHY, 3. —Davis's Physical Geography.

NATURE STUDY, 1. —Hodge's Nature Study and Life.

WOODWORKING, 4. —Principles of carpentry and joinery; wood turning; cabinet work. Sickel's Exercises in Woodworking.

FORGING, 2. —Management of fire; drawing; welding; riveting; tempering.

SECOND YEAR CLASS.

MATHEMATICS, 6. —Milne's Academic Algebra through quadratics; Beman and Smith's Plane Geometry, completed.

ENGLISH, 4. —(1) *Rhetoric*: Hill's Foundations of Rhetoric. (2) *Composition*: Class-room themes, one each week, written and rewritten, based upon assigned general reading, with especial attention given to spelling, punctuation, paragraphing, and idiomatic expression. (3) *For General Reading*: Tennyson's Gareth and Lynette, Lancelot and Elaine, and the Passing of Arthur; Shakspeare's Macbeth, and Merchant of Venice; Scott's



Ivanhoe, and Lady of the Lake; George Eliot's Silas Marner. (4) *For Careful Study:* Shakspeare's Julius Cæsar; Macaulay's Life of Johnson; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas. (5) *For Memorizing:* Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, and selections from Shakspeare's Julius Caesar, and Tennyson's Idylls of the King.

LATIN, 4.—Four Books of Caesar, or an equivalent; Bennett's Grammar and Exercise Book.

GERMAN, 4.—Easy German texts the first term; selected works of Lessing, Gæthe, and Schiller, the second term; composition; sight reading; assigned reading; memorizing of German songs.

HISTORY, 3. —Botsford's History of Greece, first term; Botsford's History of Rome, second term.

PHYSIOLOGY, 2.—Hutchinson's Physiology and Hygiene.

PHYSICS, 2.—Gage's Elements of Physics; lectures; laboratory and written work.

PEDAGOGY, 5 —Page's Theory and Practice of Teaching; Baldwin's Art of School Management; McMurry's General Methods; McMurry's Methods of Recitation; Buell's Psychology; James's Psychology.

CIVIL GOVERNMENT, 2.—Willoughby's Rights and Duties of American Citizenship; Arkansas and The Nation; and Johnson's History of American Politics.

FREEHAND DRAWING, 4 —Practice work; outline drawing from models and machine parts; plan, elevation, and section drawings.

ELEMENTARY AGRICULTURE AND BOOKKEEPING, 3. —Elementary work in Agriculture, and a course in single entry bookkeeping.

NOTE. In the preceding courses the figure after each subject indicates the number of hours per week.

### CONSERVATORY OF MUSIC AND ART.

Fayetteville.

HENRY SIMMS HARTZOG, LL. D. . . . . 717 W. Dickson St.  
*President.*

HAZEL ARCHER YATES, DIRECTOR. . . . . 123 College Ave  
*Piano and Violin.*

GERTRUDE CRAWFORD .....	206 College Ave.
<i>Voice Culture.</i>	
FRANK BARR.....	227 N. Maple Ave.
<i>Band Instruments.</i>	
MARTHA HUDSON WHITE .....	740 W. Maple St.
<i>Elocution and Physical Culture.</i>	
FRANCES MCSWINE.....	206 East St.
<i>Art.</i>	
MRS CORDELIA BAIRD.....	206 East St.
<i>Art.</i>	

# Purpose.

The fundamental idea of the management has been to make the Conservatory of Music and Art complete and thorough in every respect, and to advance the pupils rapidly, yet carefully. In other words, the standard of efficiency must be so high that a certificate of study and ability granted here will possess a value recognized far and wide, and that pupils will choose to study here in preference to going to the great cities.

## Tuition in the Conservatory of Music and Art.

Owing to the fact that the state provides for the expenses of the music department and a portion of the salary of the instructors, the tuition is far below the usual price paid elsewhere for similar advantages.

One term (18 weeks) two lessons per week	Piano, voice culture,
string, or band instruments.....	\$22 50
Harmony (in class).....	5 00
Use of pianoforte for practice one hour daily	2 50
Elocution in classes free to University students.	
Regular art course, per month.....	5 00
Per term of three months.....	12 00
Teacher's art course, per month.....	1 50

All students are required to matriculate with the secretary of the University. The music and art students

will pay the regular matriculation fee of five dollars in addition to their tuition.

The tuition is based upon a term of eighteen weeks except when otherwise stated, and these rates do not apply for a less period. Tuition must be paid at the beginning of the term and receipt presented before taking lessons.

#### **Rules and Regulations.**

All arrangements must be made at the director's office (University Hall, room 26).

The tuition is payable strictly in advance; if it is paid later, a higher rate is charged.

Pupils may enter at any time, but will not be accepted for less than one term of eighteen weeks.

No deduction can be made for lessons missed by the pupil, but such lessons may be made up within the term.

Pupils are not allowed to take part in public entertainments without the knowledge and consent of the director.

For further information, address the director.

#### **Special Advantages of Conservatory Instruction.**

Aside from the opportunity of instruction by teachers of recognized ability, the advantages of conservatory over private instruction are so manifest that we deem it hardly necessary to enumerate the many points in its favor.

It is almost impossible for the private teacher to give the required attention to the different instrumental branches, as well as the theoretical, such as harmony, counterpoint, composition, ear training, etc., which are absolutely essential to a thorough musical training; at

the same time, the lectures on musical history, the public recitals, as well as the close association of a large number of earnest students, create a certain musical atmosphere which is a great aid and stimulus to increased efforts on the part of pupils.

#### **Recitals.**

Especial attention is called to the recitals of both students and faculty, of which a number are given each year, and which have won a reputation for artistic excellence. The advantage derived from these cannot be overestimated.

At the pupils' recitals, which are given at regular intervals, all students are privileged and expected to appear as their talents and advancement may warrant. Not only does this offer them a greater incentive to put forth their best efforts, but it helps them to overcome the nervousness which often mars the performance of students who have not the opportunity of performing frequently before an audience. The recitals given by members of the faculty have attracted especial attention, and, needless to say, are a further aid and attraction to pupils.

#### **Chorus Work.**

A large chorus has been organized to which all students are admitted free. Oratorios, cantatas, and part songs by the best composers are studied here, which are performed in recitals and concerts during the season and especially at commencement.

#### **Orchestra.**

Students of the violin and other orchestral instruments will, as soon as possible, be admitted to membership in the University orchestra, which takes part in all

recitals and concerts. This practice is a decided advantage, as well as a source of pleasure to the student. Students derive great benefit from the orchestral and chorus practice, which is free to all students of the University. The work of the pupils in these branches has elicited the highest commendation.

#### **Piano.**

The method of pianoforte instruction is the "flexible wrist, loose arm system," inaugurated by Mendelssohn, Chopin, Thalberg, Gottschalk, and continued by Liszt and Leschetizky and their pupils. The flexibility of the wrist is the only means of securing a full, noble, and rich tone from the piano. The keys should be pressed with a boneless hand and fingers of velvet.

#### **Piano Practice.**

Pupils can arrange at a very moderate expense to do their daily practicing at the University, in case this should prove desirable.

#### **Violin.**

The violin is by many considered the most difficult of instruments and requires careful and conscientious study. Much depends on the beginning. Often a pupil begins study with an inexperienced teacher, or one who does not concentrate his attention on this one most difficult instrument, and consequently falls into bad habits of position, bowing, or technique, that make advancement difficult, and are in many cases almost impossible to overcome. The pupil is taken from the beginning and carefully brought through the most difficult phases of the violin. In addition to his exercises, he is, as soon as possible, given pieces within his capacity.

The course of study includes the following: Mazas's Practical Method for the Violin; Kayser, 36 Etudes, op. 20; Mazas's Etudes, op. 38; Blumenstengel's Etudes, Rud. Kreutzer's Etudes; P. Rade's 24 Caprices; pieces by Dancla, Behr, De Beriot, Brahms, Vieuxtemps, and others.

#### **Band Instruments.**

Students of band instruments may, as soon as is practicable, be admitted to membership in the University band, which is under the direction of an experienced bandmaster.

#### **Voice Culture.**

In this branch special stress is laid on the control of the breath, accuracy of tone, and distinct articulation; next, the development of mind, body, and voice, coöperatively. There is study of intervals, scale building, sight reading. As early as practicable the student is trained in phrasing. Musical expression is artistically developed in harmony with the individuality of the pupil. The exercises used are those best adapted to the needs of the pupil. Songs of the best American, English, German, Italian, and French composers are used according to the progress of the pupil. There is study of opera and oratorio.

#### **Harmony.**

Harmony includes keys, scales, intervals, formation of the triad, chord connections, and simple part writing, harmonizing basses, including all chords of the seventh and their inversions, altered and augmented chords, suspensions, and modulation.



**Sight Reading.**

All music pupils will be given practice in sight reading, which will be a great aid in their regular work.

**Teachers' Course.**

Those desiring to become teachers will be given special preparation when they are sufficiently advanced in their branches.

**Diplomas and Certificates.**

In replying to the many inquiries regarding the period of study required for graduation, it must be said that it is difficult to answer this question, as all depends upon the ability and application of the student. Some will accomplish in one year what it takes others two or three times as long to complete. The term varies from four to six years. A graduate must be able to give acceptably a recital in the chosen branch, besides passing examinations in harmony, and the history of music. Diplomas with the degree of Bachelor of Music are conferred upon graduates. On request, certificates are issued to those finishing a portion of the whole course. As the standard set in this department is that required by the best conservatories of the country, a diploma obtained under these conditions has a meaning.

A fee of five dollars is charged for the diploma.

**MUSIC COURSE.****Leading to the Degree of B. Mus.**

FIRST YEAR.	Hrs. per week.	SECOND YEAR.	Hrs. per week
Music lessons.....	2	Music lessons.....	2
Practice (6 hours).....	3	Practice (6 hours).....	3
English.....	4	English.....	4
United States History.....	3	Greek and Roman History.....	3
Arithmetic.....	2	Elective.....	3
Total hours.....	15	Total hours.....	15

FRESHMAN.	Hrs. per week.	SOPHOMORE.	Hrs. per week.
Music lessons.....	2	Music lessons.....	2
Practice (12 hours).....	6	Practice (12 hours).....	6
Elocution.....	4	German 1 or French 1.....	3
English 1.....	3	Italian 1.....	3
		Elective.....	1
Total hours.....	15	Total hours.....	15

JUNIOR.	Hrs. per week.	SENIOR.	Hrs. per week.
Music lessons (2 piano or vocal, 2 harmony).....	4	Music lessons (2 piano or vocal, 2 harmony).....	4
Practice (12 hours).....	6	Practice (24 hours).....	12
German 2 or French 2.....	3		
Elective.....	2	Total hours.....	16
Total hours.....	15		

Music students not desiring to graduate, but merely to accomplish a specified amount of musical work, may have a special course laid out, according to their individual needs. Certificates stating just what they have taken will be given them upon request.

#### FIRST YEAR PREPARATORY.

##### List of Piano Music Used in the B. Mus. Course.

Kroeger's Elementary Course in Pianoforte Playing op. 38.  
Duvernay's *Ecole Primaire*.  
Loeschhorn's *Easy Studies*.

#### SECOND YEAR PREPARATORY.

Ascher's *Twenty-four Studies*.  
Loeschhorn's *Easy Studies*; op. 65.  
Plaids's *Technical Studies*.  
Clementi's *Sonatina in C*; op. 36; No. 1.  
Kuhlau's *Sonatina in C*; op. 20; No. 1.  
Haydn's *Andante*, from "Surprise" Symphony (arranged by Sidus).  
Chopin's *Spring Waltz* (op. posthume).

Schumann's *Melody*; op. 68.  
 Heller's *Petite Tarantelle*.  
 Goldner's *Gavotte Mignonne*.

## FRESHMAN.

Bach's *Twelve Little Preludes*.  
 Bertini's *Studies*; op. 29.  
 Lœschhorn's *Studies*; op. 66.  
 Czerney's *Etudes de la Velocite*.  
 Beethoven's *Sonatinas* in G and G minor; op. 49  
 Behr's *Gavotte Pompadour*.  
 Durand's *Chaconne*; op. 62.  
 Haydn's *Gypsy Rondo*.  
 Jungmann's *Heimweh*; op. 117  
 Moszkowski's *Mazurka* in G; op. 10; No. 3  
 Mozart's *Sonata* in C; No. 7.  
 Schumann's *Reverie (Traeumerei)*; op. 15; No. 9.

## SOPHOMORE.

Heller's *Studies*; op. 47, 46, 45.  
 Cramer's *Etudes* (edited by Hans von Buelow) Books 1, 2.  
 Bach's *Two Part Inventions*.  
 Bach's *Gavotte, G Minor*.  
 Beethoven's *Sonata* in G; op. 14; No. 2.  
 Chopin's *Mazurkas* in B Flat, C and F.  
 Chopin's *Preludes* in E Minor, B Minor, and D  
 Greig's *Albumleaf* in E Minor.  
 Henselt's *Morning Serenade*.  
 Kroeger's *Greeting to Spring*; op. 20; No. 2.  
 Jensen's *Happy Wanderer*; op. 17; No. 2.

## JUNIOR.

Cramer's *Etudes* (edited by Hans von Buelow). Books 3, 4.  
 Bach's *Three Part Inventions*.  
 Taussig's *Daily Studies*.  
 Kroeger's *Humoresque*, in E Major (*Cradle Song*); op. 9.  
 Liszt's *Consolations* in E Major and D Flat.  
 Mendelssohn's *Songs Without Words*. Nos. 2, 4, 6, 9, 12, 35.  
 Mozart's *Sonata* in A.  
 Reinecke's *Sonatina* in D.

Schubert's Impromptu in A Flat; op. 142.  
Schumann's Abendlied.  
Schumann's Warum?  
Seeling's Schilflied op. 12.

SENIOR.

Clementi's Gradus ad Parnassum (Tausig)  
Kullak's Octave Studies (edited by E. R. Kroeger)  
Bach's Gavotte, D Minor.  
Beethoven's Sonatas.  
Chopin's Nocturnes; G Minor, B Major; F Minor.  
Chopin's Valses; E Flat, A Minor, F, C Sharp Minor  
Chopin's Polonaise in A Major; op. 40; No. 1.  
Chopin's Prelude in D Flat.  
Jensen's Will o' the Wisp; op. 17.  
Kroeger's Humoresque in E Minor; op. 9; No. 1.  
Liszt's Serenade de Schubert.  
Liszt's Love's Dream, Nocturne.  
MacDowell's Shadow Dance.  
Moszkowski's Valse in A; op. 18; No. 1.  
Mozart's Fantasie and Sonata, C Minor.  
Raff's Abends; op. 55.  
Rheinberger's La Chasse; op. 5.  
Schubert's Four Impromptus; op. 90.  
Schumann's Romance in F Sharp; op. 28.  
Schumann's Hunting Song; op. 82; No. 5.  
Seeling's Barcarolle; op. 9.  
Tschaikowsky's Chant Sans Paroles; op. 2; No. 2.

**List of Vocal Music Used in the B. Mus. Course**

FRESHMAN.

Marchesi's Individual Exercises.  
Panofka's Vocalises; op. 85.  
Studies for sight-reading and easy songs.  
Piano lessons for accompaniment playing

SOPHOMORE.

Marchesi's individual exercises.  
Panofka's Vocalises; op. 81.

Concone's Vocalises; op. 12.

Studies for sight-reading and songs of second grade.

Piano lessons for accompaniment.

#### JUNIOR.

Marchesi's individual exercises.

Sieber's Vocalises; op. 94.

Concone's lessons op. 17, and songs of some difficulty, including oratorio.

Harmony (Dr. Stainer's).

#### SENIOR.

Lamperti's studies in bravura.

Oratorio and operatic arias, and difficult songs in English, French, German, and Italian.

Harmony completed.

History of Music.

### ELOCUTION AND PHYSICAL CULTURE.

#### I. Elocution.

1. *Psychological Development of Expression.* The mind is trained to appreciate language that all the varying shades of meaning may be brought out of it by clear and forcible speaking, and that the audience may be affected as the author intended. The imagination is cultivated, the emotional nature is developed and controlled, and the will is strengthened by learning to follow a train of thought. The effects are naturalness, directness, and repose.

Daily training in vocal interpretation on graduated steps from English classics. Eight volumes to be completed in four years. These extracts are arranged that the laws of oratory may be best illustrated by practice on them. Vocal and dramatic interpretation of "The Merchant of Venice," "Macbeth," "Hamlet," "As You

Like It," and "Twelfth Night." Study and vocal interpretation of "Saul," "Rabbi Ben Ezra," "Abt Vogler," "The Last Ride Together," and "Andrea del Sarto." Two of Tennyson's longest poems to be studied.

2. *Oratory.* A study and delivery of some of the great orations and the methods adopted by the leading orators; Bible and hymn reading; practice on the laws that govern universal art as applied to oratory and original speeches.

3. *Voice.* Lectures on the physiology and hygiene of the voice and the relation of the vital organs to the vocal; the fundamental principles of voice production and its relation to the nervous system. Deep and rhythmic breathing; placing of tones; projection of tone; development of resonance, flexibility, freedom, smoothness, purity, power, and brilliancy of tone. Voice as an interpreter of mental states and its relation to imagination and feeling.

4. *Visible Speech.* (Bell's Method) Diagrams and symbols of vowels and consonants. Instruction in forming vowels and consonants from objective ideals. Training the ear to detect all variations in the fundamental sounds. Overcoming individual defects in vocal organs. Clear articulation and perfect enunciation.

## II. *Physical Culture.*

1. *Gymnastics.* The aim of this department is to develop the body symmetrically, and to acquire a normal condition as a basis for health and grace.

Work with gymnasium apparatus. Drill with wands, dumb bells, bars, Indian clubs, "setting-up exercises," marches, and fancy steps. Gymnasium games, including basket ball. Exercises adapted to overcome



individual defects. Rhythmic drills given to break lines of limitation and awkward appearance in the body.

The Emerson system of psycho-physical culture, together with other systems, as the Swedish and the Ralston, are used as the individual needs of the pupils require.

2. *Gesture.* The principles of Delsarte are used. Developing the mind to think intelligently on a subject, thereby causing the body to respond properly as an aid to this expression. Right concepts and proper physical drill to develop the whole body harmoniously.

The aim sought in gesture and bodily expression is truthfulness, completeness, unity, and intensity of expression with individuality and originality.

A text-book is used in gesture. The pupils are taught to analyze all gestural movements and to detect any false movement and the psychological state that caused it. By this method, after the pupil is trained, false bodily expression in rendering is as impossible as false sounds in vocal expression.

3. *Lectures.* On etiquette, morals, manners, laws of hygiene, hygienic dress, æsthetic and artistic culture as revealed by nature and art, and the relationship of nature and art.

#### ART.

MISS FRANCES MCSWINE and MRS. CORDELIA BAIRD, *Teachers*,  
206 East St.

Students of St. Louis School of Fine Arts; New York School of Fine Arts, Wm. Chase; F. Louie Mora; Frank DuMond, Howard Christy

#### Branches Taught.

Drawing, oil, water color, and pastel; pen and ink, from still life, casts, and life; decorative art; wood carving; pyrography.

**Regular Course.**

**FIRST YEAR.**

Charcoal and pencil drawing from casts, still life, and nature.

Water color sketching from still life and nature.

**SECOND YEAR.**

Drawing from casts and life; painting in oil; pastel and water color from life and still life; and sketching out of doors in any medium.

**THIRD AND FOURTH YEARS.**

Drawing and painting in any medium from life, still life, and landscape; studies in composition.

A special course of free-hand drawing and water color has been arranged for students preparing for public school work.

Students wishing to study decorative oil alone are required to take a short course in drawing first. All students are required to read something of the history of art and artists, and as much as possible keep up with what is doing in the artistic world. A specialty is made of outdoor sketching. There will be a summer school in this line, beginning in April and lasting the entire summer.

**THE AGRICULTURAL EXPERIMENT STATION.**

**Fayetteville.**

WILLIAM GEORGE VINCENHELLER, . . . . . 321 Washington Ave.  
*Director.*

ROBERT ROBSON DINWIDDIE, M. D. . . . . 518 Leverett St.  
*Pathologist and Bacteriologist.*

ERNEST WALKER, B. S. A. ....	524 Leverett St.
<i>Horticulturist and Entomologist.</i>	
GEORGE ALBERT COLE, B. S., A. M. ....	763 W. Dickson St.
<i>Agriculturist.</i>	
JOHN HENRY NORTON, B. Agr., B. S. ....	300 W. Center St.
<i>Chemist.</i>	
VICTOR ALBERT HOOPER. ....	300 W. Center St.
<i>Instructor in Dairying.</i>	

The national government established the experiment station as a department of the University in 1887, and maintains it to investigate agricultural problems for the aid of the farmers of the state.

The work of the experiment station is divided into the special lines of agriculture, horticulture, and entomology; chemistry, animal and plant diseases; animal production, pomology, and farmers' institute work. Specialists are employed in each line, and experiments are made both in the field and in the laboratory in the improvement of soils, the rotation of crops, diseases of plants and domestic animals, in fertilizers, the value of stock foods, dairying, and other matters. Students interested in agricultural subjects are given opportunity to observe the experiments and to acquaint themselves with the work of the station in its various departments; the bulletins are also available for their use. The experiments and their results are published in eighty-six bulletins, which are sent free to farmers, stock raisers, and fruit growers of the state, and to others interested in agriculture.

Those who desire the station bulletins should apply for them to the director of the station, Fayetteville, Ark. One application is sufficient to obtain all future bulletins if desired. The following bulletins are not yet out of print:

19. **Farm Manuring.**
22. **Sorghum and Sugar Cane Culture—Syrup and Sugar Making on small Farms.**
23. **Cotton—Maintenance of Cotton Soils and their Improvement Without Commercial Fertilizer. Feeding Vegetable Matter to Cattle before Using as a Fertilizer.**
25. **Animal Pathology.**
27. **Agriculture—Late Crops for Overflow Lands—Corn**
28. **Agriculture—Rye for Green Winter Feeding—Fertilizer Experiments with Rye—Onion from Seed, etc.**
29. **Agriculture—Wheat Experiments on Sandy Loam Soil—Some Grass Experiments on Clay Loam Soil.**
30. **Stock Feeding.**
31. **Agriculture—Fattening Mature Steers on Cotton Seed and Cowpea Hay.**
32. **Farm Drainage—Protection of Soil from Surface Washing. Drainage of Wet Lands. Indications of the Need of Drainage.**
33. **Remedies for Destroying them.**
34. **Vegetable Gardening—Culture and Fertilization**
40. **On the Toxic Properties of Moulds—Investigation of Stock Diseases.**
41. **A Succession of Crops for Pork Production.**
42. **Wheat or Milling Products.**
43. **Horticultural Reports.**
44. **Vegetable Gardening.**
46. **Improving Worn Soils with Legumes.**
47. **Principles of Farm Manuring.**
51. **Communicable Diseases.**
52. **Feeding Cotton Seed and Meal.**
53. **Chemistry of Wheat.**
54. **Feeding Test of Foods for Producing Pork.**
55. **Orchard Cultivation.**
56. **Tomatoes, Onions, etc.**
57. **Relative Virulence for the Domestic Animal of Human and Bovine Tubercle.**
58. **Grazing of Steers, and Other Experiments.**
59. **Experiments with Corn in Different Latitudes**
60. **Second Report on the Arkansas Seedling Apple**
61. **Hay and Pasture Plants for Arkansas Soils.**

62. Wheat Experiments.
63. The Relative Susceptibility of the Domestic Animal to the Contagia of Human and Bovine Tuberculosis.
64. Notes on Celery.
65. Pig Feeding Experiments.
66. Oat Experiments.
67. Investigation of Swine Diseases in Arkansas.
68. Soil Improvement and Forage Experiments.
69. Some Muskmelon Experiments.
70. Cowpea Experiments.
72. Sweet Potato Experiments.
73. Pork Production and Hog Ranching.
74. Phosphates of Arkansas.
75. Alfalfa.
76. Pig Feeding Experiments with Cotton Seed Meal.
77. Cowpea Experiments.
78. Edible Oils.
79. Peach Growing in Arkansas.
80. Cowpea Hay.
81. Fertilizers.
82. Live Stock Sanitation in Arkansas.
83. Broom Corn Suggestions.
84. Peanuts.
85. Cotton Food Products in Hog Feeding.
86. (a) Asparagus and Rhubarb.  
(b) Fertilizers Registered for Sale in Arkansas during the Year 1905.

#### THE MEDICAL SCHOOL.

##### Little Rock.

HENRY SIMMS HARTZOG, LL. D.,  
*President.*

JAMES A. DIBRELL, M. D.,  
*Professor of General Descriptive and Surgical Anatomy, and  
President of the Faculty.*

EDWIN BENTLEY, M. D., U. S. A. (Retired),  
*Professor of Principles and Practice of Surgery.*

C. WATKINS, M. D.,

*Professor of the Practice of Medicine.*

JAMES H. LENOW, M. D.,

*Professor of the Diseases of Genito-Urinary Organs*

LOUIS R. STARK, M. D.,

*Professor of Gynecology.*

E. R. DIBRELL, M. D.,

*Professor of Physiology, Physical Diagnosis, and Clinical Medicine.*

FRANK VINSONHALER, M. D.,

*Professor of Ophthalmology and Otology.*

THOMAS N. ROBERTSON, A. B., LL. B.,

*Professor of Medical Chemistry and Toxicology.*

W. H. MILLER, M. D.,

*Professor of Obstetrics.*

F. L. FRENCH, M. D.,

*Professor of Materia Medica, Therapeutics, Hygiene, and Botany, and Secretary of the Faculty.*

CARLE E. BENTLEY, M. D.,

*Professor of Clinical Surgery and Dermatology.*

JOHN R. DIBRELL, M. D.,

*Professor of Surgical Pathology and Bacteriology.*

W. C. DUNAWAY, M. D.,

*Demonstrator of Anatomy.*

E. E. MOSS, A. M., LL. B.,

*Professor of Legal Medicine.*

R. W. LINDSEY, M. D.,

*Lecturer and Clinical Instructor in the Practice of Medicine.*

C. E. WITT, M. D.,

*Lecturer and Clinical Instructor in the Practice of Medicine, and Adjunct Professor of Materia Medica and Therapeutics.*

H. C. STINSON, M. D.,

*Lecturer and Clinical Instructor in the Diseases of the Nervous System.*

MORGAN SMITH, M. D.,

*Lecturer and Clinical Instructor in the Diseases of Children.*



ANDERSON WATKINS, M. D.,

*Adjunct Professor of Physiology, and Assistant in Clinical  
Surgery and Dermatology.*

W. A. SNODGRASS, M. D.,

*Assistant in Gynecology.*

J. G. WATKINS, M. D.,

*Assistant in Otology and Ophthalmology*

S. R. STOVER, M. D.,

*Assistant in Clinical Medicine.*

A. E. SWEATLAND, M. D.,

*Assistant Demonstrator of Anatomy.*

A. L. CARMICHAEL, M. D.,

*Assistant Demonstrator of Anatomy.*

OSCAR GRAY, M. D.,

*Assistant Demonstrator of Anatomy*

## Twenty-seventh Annual Announcement

### OF THE

#### MEDICAL SCHOOL OF THE UNIVERSITY OF ARKANSAS.

The regular course of lectures will begin on Monday, October 16, 1905, and continue until April 14, 1906.

Lectures will be delivered daily during the six days of each week.

The matriculation book will be open from and after September 1 to students desiring to matriculate early and secure choice of seats.

In making this annual announcement the faculty feels great satisfaction in referring to the continued success and prosperity of the medical department. The cordial indorsement of the Arkansas Medical Society, and the generous influence of the medical profession

throughout the state, are highly appreciated and encourage the members of the faculty to continue the arduous labors which they have so long and zealously maintained.

#### **Four Years' Graded Course.**

The advanced stand taken by the faculty in adopting the four years' graded course as required by the Association of American Medical Colleges, seems to be appreciated by members of the medical profession, and students as well, as is shown by the number and higher educational standing of students since its adoption.

It is a source of satisfaction to the faculty that this school has been a member of the American Medical College Association since the foundation of the latter, and has always been in favor of the very highest standard for graduates of medicine.

The demands of modern medicine are such that after long experience it has been fully demonstrated that a shorter term of study is wholly inadequate for any student, no matter what his capabilities are, to acquire a thorough medical education. Moreover, in the present crowded state of the profession, there is no longer any room or demand for half-taught and partly educated physicians, and only those who are fully trained and thoroughly educated are fitted for the responsible duties of a physician, or are likely to succeed in their chosen profession.

So universal is the demand for higher medical education that in many states boards of health and other constituted authority refuse to license graduates of medical schools having a shorter term of study than four years.

**Matriculation.**

As required by the rules and regulations of the Association of American Medical Colleges, students on matriculating are required to present (a) credentials showing that they are matriculates or graduates of recognized colleges of literature, science or arts, of high schools, academies, normal schools, or equivalent schools, or (b) teachers' certificates.

Graduates and matriculates in medicine, dentistry, or pharmacy, on presenting proper credentials, are exempt from the entrance examination.

To avoid delay, students entitled to matriculate without examination are requested to bring their certificates with them and present them on arrival at the college.

Students not entitled to exemption, as hereinbefore provided, are required to pass an entrance examination, with the following requirements: the writing of an English composition of not less than two hundred words; the translation of easy Latin prose; a knowledge of the elements of arithmetic or algebra and of elementary physics.

Students who may be unsuccessful on their entrance examinations, or any subject or subjects, are allowed one year to qualify themselves; they may register and pursue their studies one year, but they cannot begin the studies of the second year until they have passed the required entrance examination.

These examinations are reasonable, their only object being to ascertain whether students are sufficiently educated to profit by medical study.

Students who have the entrance requirements will be entitled to additional credit for time on the four years'

course, as follows: (a) To students having the A. B., B. S., or equivalent degrees from reputable literary colleges, one year of time. (b) To graduates and students of colleges of homœopathic or eclectic medicine, as many years as they attended those colleges, provided they have met the previous requirements of this school and passed an examination in materia medica and therapeutics. (c) To graduates of reputable colleges of dentistry, pharmacy, and veterinary medicine, one year of time.

### **Curriculum.**

**FIRST YEAR** —Anatomy, Practical Anatomy, Physiology, Chemistry, Physics, Histology, Medical Ethics, and Materia Medica.

**SECOND YEAR** —Anatomy, Practical Anatomy, Physiology, Chemistry, Materia Medica, Pathology, Obstetrics.

**THIRD YEAR.**—Materia Medica and Therapeutics, Toxicology, Obstetrics and Diseases of Children, Physical Diagnosis, Diseases of the Eye and Ear, Practice of Medicine, Surgery.

**FOURTH YEAR** —Review of all branches—Practice of Medicine, Surgery, Dermatology, Gynecology, Bacteriology, Urinology, Venereal Diseases, Diseases of the Nervous System, Medical Jurisprudence.

Students are required to stand an examination each year before being advanced.

### **Location.**

The city of Little Rock is conveniently situated in the center of the state, and railroads enter from every direction, making it easily accessible.

It has a population of more than sixty thousand, and has always been classed as one of the healthiest cities west of the Mississippi River. Few places can boast of better educational facilities than Little Rock.

All of the eleemosynary institutions of the state are located here. These are the school for the blind, the deaf mute institute, and the insane asylum.

#### **Medical School Building.**

The new structure is an imposing edifice, three stories in height, constructed of brick, and admirably arranged for the convenience of both students and instructors.

It has a large lecture hall, a fine amphitheater with chairs, a library, a reading room, a museum, several dissecting rooms, all well lighted and ventilated. In fact, it is designed to be a modern and model medical college building. It is situated on Second and Sherman Streets.

#### **Hospitals.**

By the munificence of the late Colonel Logan H. Roots, and the benevolence of his widow, the city of Little Rock possesses the elegant Logan H. Roots Memorial Hospital. The medical department of the University is fortunate in having this hospital situated on lots adjoining and directly connected with its own building, thus giving greatly increased clinical facilities.

St. Vincent's Infirmary, designed solely for the treatment of acute diseases, has a capacity of nearly a hundred beds. This hospital is splendidly equipped and furnished with modern conveniences and improvements, is in the very best sanitary condition, and under the supervision and management of trained nurses, sisters of charity. This magnificent institution, conveniently situated, is the finest and best equipped institution of its kind in the Southwest, and is up-to-date in every respect.

The Pulaski County Hospital, erected at a cost of some thirty thousand dollars, is a handsome brick structure, well arranged, complete in all its equipments, and has a capacity of two hundred beds.

Victims of railway accidents, marine patients, and the sick and injured of the city, county, and state, find in these hospitals shelter, food, raiment, and that Christian attention so cheering and comforting in sickness and distress. The inmates of these different institutions embrace all classes and conditions of people—white, colored, male, female, adults, and children. Among them is found almost every form of malady, except quarantinable diseases, which are otherwise provided for.

#### **The Isaac Folsom Clinic.**

This clinic is thus designated in honor of the late Dr. Folsom, and in consideration of his liberal endowment with the sum of twenty thousand dollars. The daily instruction in this clinic is thoroughly practical, and is attended by a large number of outdoor patients from the city and surrounding country. It embraces a wide range of diseases and injuries. More than six thousand patients were in attendance last year.

#### **Methods of Teaching.**

Instruction will be given by didactic and clinical lectures, practical work in the dissecting room, chemical and physiological laboratories, and by daily quizzes on the subject of preceding lectures.

When the subject will permit of it, each branch will be so illustrated by means of diagrams, charts, models, and instruments, as to address the understanding of the student through the medium of sight as well as hearing.



## Text-Books.

The faculty recommends one or the other of the following text-books in the several departments:

*Surgery* —Wyeth, Da Costa, American Text-book of Surgery, Warren and Gould, Dennis' System.

*Orthopedic Surgery*. —Whitten, Moore.

*Operative Surgery* —Stimson, Zucker, Kande, Wharton.

*Materia Medica and Therapeutics* —Hare, Schleif, Butler, Potter, Stevens.

*Theory and Practice* —Anders, Thompson, Tyson, Osler

*Diagnosis*. —Musser, Hare, Simon, Tyson.

*Anatomy*. —Gray, Morris, Gerrish's Text-book.

*Physiology*. —Kirk, Stewart.

*Histology* —Dunham, Baum, Davidhoff and Huber.

*Bacteriology*. —Abbott, Park, Williams, Gorhams.

*Pathology* —Green, Mallory and Wright, Delafield.

*Chemistry*. —Simon's Manual of Chemistry, Rockwood's Chemical Analysis for Medical Students, Reese's Manual of Toxicology.

*Obstetrics*. —Hirst, Jewett, Williams.

*Diseases of Women*. —Thomas and Munde, Montgomery, Penrose, Pryor.

*Diseases of Children*. —Holt, Tuttle, Taylor and Wells.

*Diseases of Eye*. —Swanzy, Jackson.

*Diseases of Ear, Throat, and Nose*. —Bacon, Burnett, Coakley, Kyle.

*Genito-Urinary Organs*. —Keyes, Morton, Taylor.

*Dermatology*. —Jackson, Croker, Shoemaker.

*Botany*. —Gray.

*Dictionary*. —Dunglison, Goulds, Dorland.

*Hygiene*. —Harrington, Bergey.

*Rectum*. —Gant, Tuttle.

## Expense of Living.

The expense of living in the city of Little Rock will, of course, vary according to the views and habits of the students. Good board, at the present time, including lodging fuel, and lights, may be had, at a convenient

distance from the college, at from four dollars to six dollars per week, and from thirteen dollars to eighteen dollars per month.

Students on their arrival are requested to visit the University building, at the corner of Second and Sherman Streets, where a list of persons desiring to board medical students will be found.

Persons desiring further information are requested to address the secretary of the faculty.

#### **Requisites for Graduation.**

Each candidate for graduation must produce satisfactory evidence of good moral character, and of having attained the age of twenty-one years.

No candidate shall be eligible for final examination for graduation unless he files the proper official evidence that he has matriculated at some regular college for four sessions, and in the course of the same has attended four full courses of instruction in anatomy (including dissections), physiology, chemistry, materia medica, therapeutics, obstetrics, surgery, pathology, bacteriology, and practice of medicine. The last of the four full courses must be attended at the Medical School of the University of Arkansas. No four consecutive courses of instruction shall be held as satisfying these requirements unless the time between the beginning of the first course and the end of the fourth is greater than forty-two months. The candidate must have paid all the college fees. He must present to the secretary before the first of March the amount of his graduation fee. In case of failure to pass a satisfactory examination the money will be refunded.

**Fees.**

Table of Fees for every Year of the four-year Course :

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Matriculation.....	\$ 5 00			
Professors, lectures, etc.....	60 00	\$60 00	\$60 00	\$60 00
Graduation, diploma, etc.....				25 00
Total	\$65 00	\$60 00	\$60 00	\$85 00

There are no fees for special courses or quizzes in this college. No professor or assistant is allowed to receive a fee for instruction.

No extra charge will be made for dissecting material, demonstrator's or hospital tickets.

No variation is made, under any circumstances, from the established fees of the school, they having been placed originally at the very lowest figure commensurate with the interests of both student and school.

Alumni are requested to inform the secretary of their present post-office address, and of any change of location, in order that they may have the annual catalogue forwarded them regularly.

**Twenty-sixth Annual Commencement.**

The twenty-sixth annual commencement exercises were held Wednesday, April 12, 1905, at Old Concordia Hall, 8 o'clock p. m.

The annual address was delivered by President Henry Simms Hartzog, LL. D., of Fayetteville, and the valedictory by Dr. W. C. Dunaway, M. D., Demonstrator of Anatomy.

**Prizes Awarded in 1904.**

The gold medal offered by the State Medical Society of Arkansas to the graduate passing the best examination in all branches, was awarded to Dr. C. A. Glover, of Brookside, Ark.

A case of instruments, offered by Dr. Vinsonhaler, Professor of Ophthalmology and Otology, to the student passing the best examination in that branch, was awarded to Dr. C. A. Glover, of Brookside, Ark.

A cash prize of twenty-five dollars, offered by Dr. William Thompson, of Little Rock, to the student passing the best examination in anatomy, was awarded to Dr. G. G. Woods, of Huntington, Ark. A copy of Morris's Anatomy, offered by Dr. William Thompson, to the student passing the second best examination, was awarded to Dr. M. D. Ogden, of Little Rock, Ark.

A cash prize of ten dollars, offered by the demonstrator of anatomy for the best dissection made in the anatomical rooms, was awarded to Dr. W. C. Green, of the Junior Class.

The faculty prize, of a pocket case of instruments for the best dried anatomical specimen, was awarded to Dr. O. K. Judd, of the Junior Class.

**Prizes Offered in 1904-1905.**

Dr. William Thompson, of Little Rock, offered a prize of twenty-five dollars to the student who passed the best examination in anatomy, and a copy of Morris's Anatomy to the student who passed the second best examination in anatomy.

The Arkansas Medical Society offered a gold medal, bearing the seal of the society, to the student passing the best examination in all branches.

The faculty offered a prize of a pocket case of instruments to the student who presented the best dried anatomical specimen.

The demonstrator of anatomy offered a prize of ten dollars for the best dissection made in the anatomical rooms.

Dr. Vinsonhaler, Professor of Ophthalmology and Otology, offered a case of instruments to the student passing the best examination in that branch.

#### LAW SCHOOL OF THE UNIVERSITY OF ARKANSAS.

HENRY SIMMS HARTZOG, LL. D.,  
*President.*

#### Faculty.

J. H. CARMICHAEL, LL. B., DEAN,  
*Contracts, Equity Jurisprudence and Corporations*

JOHN FLETCHER, LL. M.,  
*Real Property.*

GEORGE W. MURPHY, LL. B.,  
*Law of Evidence.*

TOM M. MEHAFFY, LL. B.,  
*Law of Torts.*

EDWARD W. WINFIELD, LL. B.,  
*Pleading and Practice.*

JAMES F. LOUGHBOROUGH, LL. B.,  
*Conflict of Laws.*

LEWIS RHOTON, LL. B.,  
*Domestic Relations.*

THOMAS N. ROBERTSON, LL. B.,  
*Agency, Commercial Paper, and Judgment.*

THOMAS E. HELM, LL. B.,  
*Partnerships and Insurance.*

AUGUSTUS M. FULK, LL. B.,  
*Criminal Law, Practice, and Procedure*

JAMES P. CLARKE, UNITED STATES SENATOR,

*Lecturer.*

JUDGE JACOB TRIEBER,

*Lecturer.*

HON. MORRIS M. COHN,

*Lecturer.*

HON. JAMES M. HARROD,

*Lecturer.*

HON. GEORGE B. ROSE,

*Lecturer.*

#### **Course of Instruction.**

The course of instruction covers a period of two years, consisting of four terms. A shorter period is deemed insufficient for the proper preparation of the student of the law for his profession. In the language of a distinguished jurist, "He who is not a good lawyer when he comes to the bar will seldom be one afterwards." The method of instruction consists of daily recitations upon previously assigned lessons in the text-books, with special lectures to emphasize the conclusions of the author and to enlarge the student's conception of them. The system of instruction, with daily recitations largely predominating, is regarded as superior to either the recitation or lecture system when pursued alone. In addition, students are required to prepare and submit to the professors legal papers in the form of briefs upon the various topics of the text-writers, thus combining the abstract theory of the law with its practical application to the different sets of facts embraced in the various decisions of the courts consulted by the student in preparing his paper. The course of study for the two years will embrace the subjects named and assigned, as follows:



**JUNIOR YEAR.**

**FIRST TERM.**—Contracts, Agency, Commercial Paper, Torts, Bailment.

**SECOND TERM.**—Criminal Law, Evidence, Pleading, Insurance, Partnership.

**SENIOR YEAR.**

**FIRST TERM.**—Real Property, Equity, Corporations, Domestic Relations, Frauds, and Fraudulent Conveyances, Sales.

**SECOND TERM.**—Real Property, Judgments, and Lectures upon Constitutional Limitations, Private and Public International Law, Federal Practice, Bankruptcy, Medical Jurisprudence, Legal Ethics.

The first term of both Junior and Senior courses begins on the third Monday in September, and ends on the 23d of January following; the second term of each course begins on the 25th of January and ends on the first Friday in June.

**Admission.**

While we fully appreciate the advantages of a thorough collegiate training in the various academic branches as a preparation for the study of the law, we have not made this acquirement a prerequisite to admission to this department. Applicants will be permitted to take up the studies of the Junior course who are possessed of a fair English education, such as may be acquired in our public schools. Students may be admitted to the Senior course upon producing sufficient proof of their having given the necessary time and study to the different subjects of the law, either in another law school or under the direction of a practicing lawyer, but no student will be granted the degree until he has passed a satisfactory examination on all the branches embraced in the full course for two years.

**List of Text-Books.**

Tiedeman on Real Property, Greenleaf on Evidence, Eaton on Equity, Clarke on Criminal Law, Anson on Contracts, Reinhard on Agency, Mechem on Elements of Partnership, Daniel and Douglas on Negotiable Instruments, Clarke on Corporations, Van Zile on Bailments, Hale on Torts, Freeman on Judgments, Rogers on Domestic Relations, Tiffany on Sales, Bryant on Code Pleading, Cooley on Constitutional Law, Minor on the Conflict of Laws, Elliott on Insurance, Frank on Bankrupt Law, Curtis on Federal Practice and Procedure, Ewell on Medical Jurisprudence. Legal Ethics. Lectures.

**Moot Courts.**

Moot courts begin with the last term of the Junior year and continue throughout the course, and are termed the judicial department of the school, and embrace all the courts—justice, probate, circuit, and supreme—all modeled according to the constitutional requirements of the state.

The supreme court shall consist of three judges, a chief justice, and two associates. The circuit court shall consist of one judge, a clerk, and a sheriff, to be elected by the students. County and probate court shall consist of one judge, a sheriff, and a clerk, to be elected by the students. Justice of the peace court shall consist of a member of the Senior class, who shall be elected by the student body.

These courts shall be under the immediate supervision of the dean, who will be assisted by the members of the faculty in compiling statements of facts embracing principles of law pertaining to the respective branches under their instruction.

**Goar Lyceum.**

This society is composed of the students of both the Junior and Senior years, and meets regularly every

Wednesday night during the session. The exercises consist chiefly of theses and debates embracing subjects legal in their nature. The performance of these exercises is insisted upon by the faculty, for such practice enables the student to acquire the invaluable art of learning to think while on his feet, besides giving him an easy manner of address in public speaking.

#### **Examinations.**

Written examinations are held each term in the presence of a member of the faculty.

#### **Degrees.**

The degrees of Bachelor of Laws is conferred upon all students who have passed an examination on each of the subjects embraced in the course, and have attained the average standard grade of proficiency.

#### **Class Honors.**

Upon the student attaining the highest average grade in a class is conferred the first honor; upon the one attaining the next highest, the second honor; and upon the one making the next highest, the third honor.

The faculty authorize the selection of three orators to deliver orations at the commencement exercises, as follows: The Senior class, one; the Junior class, one; and the Goar Lyceum, one.

#### **Advantages of Location.**

Each student may use the supreme court library, which contains about twenty thousand volumes, including all the reports from the year books to the seventieth Arkansas. During his course of two years the student may see one session of the legislature. The supreme

court is in session about nine months of the year. A federal district court and the circuit court of appeals hold a session in Little Rock each winter. Two state circuit courts are in session about nine months in the year. The student of equity has an opportunity to observe some of its practical workings in a chancery court. Little Rock has a county and probate court, and about fourteen justices of the peace. The members of the Little Rock bar are kind and courteous to students and willing to aid them in any and every way. As Little Rock has a semi-tropical climate, it is just the place to spend a winter free from intense cold.

#### Professional Ethics.

While endeavoring to impart a knowledge of the fundamental principles of the law, the subject of professional ethics will be given special attention and its demands constantly impressed upon the minds of the students as indispensable to the attainment of an honorable and successful career as a lawyer.

#### Admission to the Bar.

By a recent act of the legislature all graduates of the law department of the University of this state are admitted to the practice of law in the supreme court and all inferior courts of the state without the requirement of an examination.

#### Tuition and Expenses.

Tuition, per course of one year.....	\$ 50 00
Tuition, per course of two years.....	100 00
Board and lodging, per month, . . . . .	\$15 to 20 00
Text-books (if desired by student), per annum . . . . .	50 00
Diploma.....	5 00

No library or society fees are required of students.

All communications should be addressed to the secretary, T. N. ROBERTSON, LL. B.,

Little Rock, Ark.

## BRANCH NORMAL COLLEGE.

ISAAC FISHER, PRINCIPAL,

*Psychology, Ethics, and Pedagogy.*

JOHN H. MICHAEL,

*Mathematics, Architectural Drawing, English.*

WILLIAM B. CHITTENDEN,

*Ancient and Modern Languages, Mathematics.*

IRENE V. COLEMAN,

*Algebra, Arithmetic, Ancient History.*

JULIA O. WRIGHT,

*Geography, United States History, Typewriting, Music.*

SADIE M. PEEBLES,

*Free Hand Drawing, English, Arithmetic.*

MATTIE I. BENSON,

*Dressmaking, Music.*

B. N. WILSON, B. Sc. M. E.

*Superintendent of Mechanic Arts.*

W. S. HARRIS,

*Assistant Superintendent of Mechanic Arts.*

J. L. ROSS,

*Machine Shop and Forge.*

## General Statement.

The Branch Normal College is a department of the University of Arkansas, established pursuant to an act of the general assembly of the state of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the state. Tuition is made free to all appointees, the only requirements for admission being suitable age and qualification, appointment by one of the county judges, and the payment of the matriculation fee of five dollars. Other students pay in addition one dollar per month in advance.

**Equipment.**

The college property consists of a beautiful tract of twenty acres of ground, in the suburbs of Pine Bluff, Jefferson County. A handsome and comfortable school building, a dormitory for girls, and manual training shops, containing as complete an equipment as can be found in any similar shops in the South.

**Requirements of Admission.**

Candidates must be at least sixteen, if young men, and fourteen, if young women; and must pass satisfactory examinations in arithmetic, English grammar, geography, and United States history.

**Appointment of Beneficiaries.**

By the laws of the state, the appointment of students to the Branch Normal College in numbers from each county in the state is the same as to the parent University at Fayetteville. The power is vested in the county courts, but any vacancies occurring during the vacations of the court shall be filled by the judge of the county court.

All students thus appointed are entitled to four years' free tuition upon the payment of five dollars' matriculation fee in advance at the time of entering the institution.

These appointments are not transferable, and students holding them must be very careful that their conduct is not such as will lead to their forfeiture; and it may also be stated that the principal reserves the right to declare forfeited the appointments of those students who are not present at the opening of the autumn term.

Students planning to enter the school should go to their county judges for appointments, which, if received,



must be brought to the college. Blanks for appointments may be secured by addressing Principal Isaac Fisher, Pine Bluff, Ark.

#### **Normal Department.**

The college offers a good course of training for those who plan to become teachers. More and more the aim will be to give scientific instruction in the matter of teaching the branches of public schools. Arrangements have been made with the superintendent of the Pine Bluff public schools by which the student-teachers of this college may inspect the school system in actual operation. Candidates completing the work of this department will be granted the certificate of Licentiate of Instruction (L. I.). Applicants must pass a satisfactory examination in the ordinary English branches to be able to enter the school.

#### **Classical Department.**

Candidates completing this course will be granted the degree of Bachelor of Arts (A. B.), but no candidate failing to write and submit an original thesis to the teacher of English will be given this degree. The subject of this thesis must be selected in December of the Senior year.

#### **The Mechanic Arts Department.**

This department offers a splendid opportunity to young colored men to become skilled blacksmiths, machinists, engineers, and firemen. The mechanic arts course and the manual training normal course are strong combinations of shop work and literary training. It is hoped that these courses will from time to time attract

young men who desire to fit themselves for higher usefulness by preparing for the pursuit of those occupations for which there is a strong demand. In addition to these there is offered a course in woodworking, which comprises cabinet making, pattern making, and carpentry.

#### **Department of Dressmaking.**

Young women are here given an opportunity to learn plain sewing, crocheting, and art needlework. There is a fine outfit of sewing machines and other requisites for doing the work planned by this department.

#### **Typewriting and Stenography.**

These subjects are taught one hour each day. Short-hand classes will be formed whenever a sufficient number of students desire to pursue this study.

#### **Military Drill.**

The young men of the college have been organized into a battalion of cadets to promote habits of neatness, order, and punctuality, and to develop an ennobling self-control in every young man connected with the school.

Under the military system thus established, it is aimed to exercise that control of the cadets which is so essential to easy and proper discipline. All young men are subject to the drill regulations.

#### **Physical Exercise.**

An athletic association for the purpose of fostering clean athletics and at the same time giving healthful exercise, has been organized under the direction of a

member of the faculty who will see that no excesses are indulged in and that sports do not interfere with the work of the other departments. Physical culture for young women is also a feature of the college work.

#### **Public Rhetoricals.**

Twice every month public rhetoricals are held in the chapel and all students are subject to assignment on the programs.

#### **Religious Life.**

Prayers are held in the chapel every morning except Saturdays and Sundays. All students are required to attend these devotions. On Sundays, the students who board in the town attend the various churches, while the girls living in the dormitory are taken to the churches of their several choices by members of the faculty.

#### **Holidays.**

The exercises of the college are suspended for one day at Thanksgiving, one on Washington's Birthday, and about ten days at Christmas.

#### **Lecture Course.**

A course of lectures on live topics is given during the year. These are free, both to the students and to the public.

#### **Trustee's Prize.**

This prize consists of twenty-five dollars, and is given to "that member of either of the two highest classes who shall during commencement week pronounce the best oration on any one of a number of subjects to be selected by the principal."

**General Exercises.**

The general exercises include reviews of the Sunday school lessons and of the events of the week; also music and drawing. There are regular lessons in vocal music which are given to all students. Students will frequently be required to give public evidence of their skill in using the library intelligently. All exercises must be attended faithfully.

**Expenses.**

For all students, entrance fee, in advance	\$ 5 00
Board, fuel, and light, for girls in the dormitory. . . . .	8 00
Board, fuel, and light, in private families. . . . .	\$8.00 to 10 00
Non-beneficiary students, for tuition, per month. . . . .	1 00
Books at usual retailers' price.	

Entrance fees and board bills are payable in advance.

For further information concerning any department of the college, address the principal,

ISAAC FISHER,

Pine Bluff, Ark.

**PART III.**

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**STUDENTS IN 1904-5.**

**GRADUATES IN 1904. ALUMNI.**

## Register of Students.

## THE COLLEGE.

*Abbreviations:* B. A., Bachelor of Arts; B. S., Bachelor of Science; B. M. E., Bachelor of Mechanical Engineering; B. C. E., Bachelor of Civil Engineering; B. Mi. E., Bachelor of Mining Engineering; M. A., Master of Arts; M. S., Master of Science; C. E., Civil Engineer; E. E., Electrical Engineer; M. E., Mechanical Engineer; L. I., Licentiate of Instruction;

Name	Course	Postoffice	County
<b>Graduates.</b>			
Bloom, John Rhine,	B. E. E.,		
	E. E.	Pine Bluff	Jefferson
*Clancy, William	B. C. E., C. E.	Butte	Mont.
*Cochrane, Victor Hugo,			
B. C. E.,	C. E.	Kansas City	Mo.
Gibson, Freeman Irby,			
B. S.,	M. S.	Little Rock	Pulaski
*Lander, Ross Sears,			
B. C. E.,	C. E.	Ziegler	Ill.
Leverett, Edward Vaulx,			
B. M. E.,	M. E.	Fayetteville	Washington
Mock, Lucy Byrd, B. A.,	M. A.	Fayetteville	Washington
<b>Seniors.</b>			
Abercrombie, Bertha	B. A.	Pactolus	Benton
Beard, Abner Hamilton	B. C. E.	Wynne	Cross
Carr, Wallace Bradbury	B. S.	Quincy	Mass.
Carter, Edward Leroy	B. A.	Franklin	Washington
Chapman, Johnson	B. C. E.	Lake Village	Chicot
Cockrill, Emmett	B. M. E.	Little Rock	Pulaski
Cole, Mary Elizabeth	B. A.	Fayetteville	Washington
Cooke, Charles Maynard	B. S.	Fort Smith	Sebastian
Cromwell, Charles Williamson			
	B. C. E.	Fort Smith	Sebastian
Davis, John Benjamin	B. S.	Chelsea	Ind. Ter.
Dickinson, William Emmett			
	B. S. A.	Horatio	Sevier
Grubbs, John Monroe	B. A.	Eddy	Drew

\*Not in residence.



Name	Course	Postoffice	County
Hudgins, Jay Guy	B. A.	Fayetteville	Washington
Irby, Alvin Stull	B. A.	Black Rock	Lawrence
Jackson, Bruen Overton	B. A.	Hamburg	Ashley
Jefferies, Samuel Smith	B. A.	Clarendon	Monroe
Jones, Coulter W.	B. S.	Lono	Grant
Jordan, Grace	B. A.	Fayetteville	Washington
Kitchens, Benton Mackey	B. A.	Paragould	Greene
Kunz, Elmer Huett	B. A.	Fayetteville	Washington
Lark, William Henry	B. C. E.	Lancaster	Crawford
Legate, Ray Holme	B. S.	Mena	Polk
McGehee, Ben	B. C. E.	Little Rock	Pulaski
Mesler, Rector Duval	B. S.	Fayetteville	Washington
Morrow, Donald Blackburn	B. E. E.	Booneville	Logan
Olney, Lee Sedwick	B. E. E.	Mena	Polk
Pope, Norman Percy	B. S.	Monticello	Drew
Pratt, Fletcher Howard	B. C. E.	Fayetteville	Washington
Reves, Claude Myrtle	B. A.	Alma	Crawford
Van Valkenburgh, Horace			
Bulle	B. S.	Warren	Bradley
Webb, Charles Wallace	B. S.	Texarkana	Miller
Webster, Fay	B. E. E.	Marvell	Phillips
Whitehead, Alexander			
Dixon	B. S. A.	Taylor	Lafayette
Williams, Beulah	B. A.	Fayetteville	Washington

Juniors.

Andrix, Earle R.	B. M. E.	Bentonville	Benton
Austin, Robert Lee	B. S.	Fayetteville	Washington
Ballard, Ben Calvin	B. A.	Fayetteville	Washington
Barrett, Frank Brown	B. C. E.	Jonesboro	Craighead
Black, Clarence Neeley	B. C. E.	Hope	Hempstead
Blackshire, Plaut Leslie	B. C. E.	Crockett	Clay
Borders, John Mallory	B. S. A.	Fayetteville	Washington
Brockman, Edward Wilson	B. A.	Garnett	Lincoln
Brunskog, Carl Waldemar	B. C. E.	Bentonville	Benton

Name	Course	Postoffice	County
Buford, Charles Homer	B. C. E.	Newport	Jackson
Campbell, Lonnie Lee	B. A.	Newport	Jackson
Clegg, Chester Bennett	B. C. E.	Siloam Springs	Benton
Collins, Thomas Abe	B. A.	De Queen	Sevier
Craig, Percy Gaines	B. A.	Little Rock	Pulaski
Croom, Cleveland White	B. A.	Dardanelle	Yell
Dalton, Charles E.	B. E. E.	Fayetteville	Washington
Ethridge, Frank Rice	B. C. E.	Hope	Hempstead
Feild, William Terry	B. M. E.	Little Rock	Pulaski
Foreman, Charles Doss	B. S. A.	Chelsea	Ind. Ter.
Freeman, William A., B. A., B. S.	B. C. E.	Paris	Logan
Friedell, Dupree Julian	B. C. E.	Texarkana	Miller
Gardner, Joseph Watt	B. A.	Larkin	Izard
Gray, Justin Gilbert	B. A.	Hickory Valley	Independence
Harding, Charles Tomlinson	B. C. E.	Fayetteville	Washington
Harris, Joseph Sumpter	B. A.	Monticello	Drew
Harvey, Ben	B. S. C.	Douglas	Lincoln
Hathcoat, Marvin Arthur	B. A.	Bellefonte	Boone
Holland, Wyatt Cleveland	B. A.	Greenwood	Sebastian
Hunt, Harry Gilham	B. A.	Walnut Ridge	Lawrence
Hurst, George Abner	B. A.	Fayetteville	Washington
Ingersoll, William Henry	B. A.	Eureka Springs	Carroll
Jacks, Maston Edwards	B. S.	Marianna	Lee
James, John John	B. A.	Maysville	Ind. Ter.
Johnston, James Henry	B. S. A.	Auvergne	Jackson
Mashturn Ernest Eugene	B. C. E.	Melbourne	Izard
McCrory, Grover Garland	B. C. E.	McCrory	Woodruff
Mitchell, Brainard, Jr.	B. M. E.	Fayetteville	Washington
Mullins, Thomas Clinton	B. C. E.	Fayetteville	Washington
Nordmeyer, Charles Dudley	B. S.	Fayetteville	Washington
Oates, Charles Everett	B. A.	Oppelo	Conway
Payne, Brodie	B. A.	Hot Springs	Garland
Pope, Arthur D.	B. A.	Taylor	Lafayette

Name	Course	Postoffice	County
Pratt, Darwin Hippolyte	B. S.	Fayetteville	Washington
Pruett, Grover Cleveland	B. C. E.	Denning	Franklin
Pruett, John Riley	B. C. E.	Denning	Franklin
Sadler, Daniel Kenard	B. A.	Booneville	Logan
Schimmelpfennig, Charles			
William	B. C. E.	Little Rock	Pulaski
Stanford, James Butt	B. S. C.	Fayetteville	Washington
Stockton, Irene Graeme	B. A.	Little Rock	Pulaski
Stone, James Hicks	B. C. E.	Fayetteville	Washington
Taber, Harry Breck	B. A.	Little Rock	Pulaski
Van Valkenburgh, William			
Moore	B. E. E.	Warren	Bradley
Weber, Lewis William	B. A.	Hindsville	Madison
Wilson, Constant Perkins	B. S.	Fort Smith	Sebastian
Wilson, Eleanor Collins	B. A.	Fort Smith	Sebastian
Winters, Winston Lee	B. C. E.	Fort Smith	Sebastian

Sophomores.

Akin, John Walton	B. S.	Culeoka	Texas
Albright, Ella	L. I.	Barren Fork	Izard
Baker, Grover Cleveland	B. E. E.	Harrison	Boone
Baleh, Coleridge Payne	B. A.	Holly Wood	Clark
Ballard, Jerrod	B. A.	Durham	Washington
Barrett, Reuben	B. S.	Jonesboro	Craighead
Beane, Ada Louise	B. A.	Rogers	Benton
Benson, Frederick Preston	B. E. E.	Camden	Ouachita
Blair, Daniel Baxter	B. C. E.	Decatur	Benton
Blair, Leila Jistine	L. I.	Van Buren	Crawford
Bolinger, Walter Allen	B. A.	Lead Hill	Boone
Bryant, William Cullen	B. S.	Nashville	Howard
Cantwell, Haiden Curd	B. E. E.	Milan	Tenn.
Carpenter, Samuel	B. C. E.	Arkadelphia	Clark
Carter, Hugh Reuben	B. C. E.	Fayetteville	Washington
Catts, Erwin Campbell	B. M. E.	Washington	Hempstead
Coker, Adam	B. C. E.	Lead Hill	Boone
Coker, Roy	B. C. E.	Lead Hill	Boone

Name	Course	Postoffice	County
Combs, Walter	B. C. E.	Mountain Home	Baxter
Cotham, Robert Bruce	B. A.	Monticello	Drew
Crozier, Ruth Margaret	B. A.	Fayetteville	Washington
Cubage, John Granville	B. A.	Amity	Clark
Dacus, Ira Lester	B. C. E.	Chickalah	Yell
Davies, Samuel Greene	B. C. E.	Fayetteville	Washington
Davis, Lyta	B. A.	Fayetteville	Washington
Deane, Sidney Edward	B. C. E.	Fayetteville	Washington
Dickson, Enos Howell	B. E. E.	Desha	Independence
Feathers, John Edward	B. C. E.	Fayetteville	Washington
Fergus, Francis Herbert	B. A.	Elm Springs	Washington
Harding, Vernon Alexander	B. E. E.	Fayetteville	Washington
Hillman, Charles Clark	B. A.	Almyra	Arkansas
Holt, James Seaborn	B. S.	Bellefonte	Boone
House, Joe Warren	B. A.	Little Rock	Pulaski
Hughes, Leslie Clare	B. Ch. E.	Fayetteville	Washington
Hutchinson, Frederick McAlpine	B. C. E.	Nashville	Howard
Hyatt, Robert Fie	B. A.	Monticello	Drew
Ingram, Cecil	B. C. E.	Lavaca	Sebastian
Johnson, Arthur Joseph	B. S.	Garnett	Lincoln
Jordan, Edna Garlington	B. A.	Blakemore	Lonoke
Jordan, Emmett	B. M. E.	Lockesburg	Sevier
Key, Kerr Cosby	L. I.	Fayetteville	Washington
McCulloch, Doddridge	B. A.	Marianna	Lee
McKay, Mary Elizabeth	B. A.	Fort Smith	Sebastian
Mitchell, John Lucien	B. C. E.	Fayetteville	Washington
Mitchell, Nolan Dickson	B. C. E.	Greenway	Clay
Moore, Henrietta	B. A.	Cincinnati	Washington
Murphy, John William	B. E. E.	Quanah	Texas
Myrick, Charles Early	B. A.	Trenton	Phillips
Orr, Milan Kenard	B. Mi. E.	Little Rock	Pulaski
Pearson, John Benjamin	B. C. E.	Poplar Grove	Phillips
Phillips, Roberta Grace	L. I.	Fayetteville	Washington
Pope, Jacob George	B. S.	Taylor	Lafayette
Pratt, Darwin Hippolyte	B. C. E.	Fayetteville	Washington

Name	Course	Postoffice	County
Reagan, Zenas Lytton	B. C. E.	Fayetteville	Washington
Reed, Kenneth Abram	B. E. E.	Gregory	Woodruff
Reinberger, Maurice Lee	B. A.	Pine Bluff	Jefferson
Rhea, William Harris	B. E. E.	Fayetteville	Warhington
Rhyne, James R.	B. C. E.	Ben Lomond	Sevier
Risser, Elizabeth Inez	B. A.	Fayetteville	Washington
Ross, James Harvey	B. M. E.	Fayetteville	Washington
Sadler, William Lloyd	B. C. E.	Little Rock	Pulaski
Shivel, Otto Lee	B. M. E.	Galena	Kan.
Shook, Sara	B. A.	Fayetteville	Washington
Shore, Rena Buchanan	B. A.	Fayetteville	Washington
Sivley, George Murphy	L. I.	Ellsworth	Logan
Smilie, Robert Percy	B. C. E.	Leslie	Searcy
Snell, Virgil Kleabor	B. C. E.	Gathers	Boone
Spradlin, Brutus Augustine	L. I.	Franklin	Izard
Stanley, Joseph Hopkins	B. A.	Augusta	Woodruff
Stelzner, William Boyd	B. E. E.	Anadarko	Okla.
Thomas, Benjamin Forrest	B. A.	Fayetteville	Washington
Thomas, Emilie Louise	B. A.	Clarendon	Monroe
Townsley, Freeland	B. S.	Little Rock	Pulaski
Tucker, Marshall Ernest	B. S.	Magazine	Boone
Tyson, William Claude	B. C. E.	Buena Vista	Ouachita
Umbaugh, Ollie	B. A.	Springdale	Washington
Watson, John Thomas	B. C. E.	Little Rock	Pulaski
Weld, Jean Grenade	B. A.	Marianna	Lee
Wilson, John Melvin	B. S.	Evening Shade	Sharp
Wood, Shirley	B. S. C.	Little Rock	Pulaski
Worthington, Hall Vincent	B. Ch. E.	Harrison	Boone
York, Joseph Othel	B. A.	Bellefonte	Boone

Freshmen.

Barrett, Lou Ella	B. A.	Jonesboro	Craighead
Barton, Maude Lee	L. I.	Cove	Polk
Beasley, William Howard	B. E. E.	Texarkana	Miller
Beckett, Clintis Murl	B. C. E.	Cowlington	Ind Ter.
Beckett, Franklin Lovell	B. C. E.	Cowlington	Ind. Ter.

Name	Course	Postoffice	County
Bird, Earl Valentine	B. A.	Springdale	Washington
Bixler, Pearl	L. I.	Eureka Springs	Carroll
Blakemore, Thomas Leslie	B. A.	Altus	Okla.
Boles, Edwin Clifford	B. M. E.	Fayetteville	Washington
Brough, Ruth	B. A.	Fayetteville	Washington
Brunson, Thomas Roswell	B. C. E.	Rock Creek	Pike
Bumpass, Edward Kenneth	B. E. E.	Fayetteville	Washington
Cabe, Robert Lewis	L. I.	Burks	Saline
Cazort, Thomas J.	B. S. A.	Lamar	Johnson
Childs, James La Fayette	B. A.	Warren	Bradley
Chunn, George Davies	B. S.	Holly Grove	Monroe
Cook, Ernest Fleet	B. A.	Texarkana	Miller
Cook, Flippin Martin	B. A.	Texarkana	Miller
Cook, Ira	B. M. E.	Fayetteville	Washington
Cowling, A. D.	B. A.	Cowlington	Ind. Ter.
Cross, Micajah C.	B. C. E.	Pine Bluff	Jefferson
Davis, Carl Gay	B. A.	Fayetteville	Washington
Davis, Lyna Hamilton	B. S.	Little Rock	Pulaski
Dent, Carlton Gale	B. E. E.	Annieville	Lawrence
DeWitt, Mills	B. A.	Peter Pindar	Franklin
Droke, Albert Hill	B. E. E.	Fayetteville	Washington
Dunn, Ralph Knox	B. A.	Fayetteville	Washington
Elder, Thomas Duane	B. S.	Jonesboro	Craighead
Elkins, Clara Maude	L. I.	Magazine	Logan
Elkins, Clyde Claude	B. S. A.	Magazine	Logan
Elkins, Everett Marvin	B. E. E.	Magazine	Logan
Ford, Bessie	L. I.	Lonoke	Lonoke
Ford, David Lane	B. A.	Webb City	Franklin
Fuhrman, William Samuel	B. E. E.	Fort Smith	Sebastian
Gean, Houston	C. E.	Sheridan	Grant
Gibson, Rupert Campbell	B. A.	Berryville	Carroll
Glassbrook, Edwin	B. M. E.	Millville	Ouachita
Glover, William Howarth	B. E. E.	Little Rock	Pulaski
Gordon, Luther, Jr.	B. A.	Morrilton	Conway
Grant, James Rhyne	L. I.	Dover	Pope

Name	Course	Postoffice	County
Greathouse, Ollie May	B. A.	Johnson	Washington
Greene, Henry Lambert	B. E. E.	Searcy	White
Hamilton, Paul Key	B. S.	Mena	Polk
Harmon, Lena E.	B. A.	Fayetteville	Washington
Haskell, Lucie	B. A.	Fayetteville	Washington
Hayes, Claude Henry	B. C. E.	Bald Knob	White
Hight, William Clarence	B. C. E.	Fayetteville	Washington
Holcomb, Joseph L.	B. E. E.	Springdale	Washington
Hopson, Edwin Eastman	B. A.	Mountain Home	Baxter
Houston, Leda	B. A.	Sulphur City	Washington
Huddleston, John Lane Con	B. S.	Flippin	Marion
Hurt, Garland	B. S.	Newport	Jackson
Ingle, John C.	B. S. C.	Fort Smith	Sebastian
Jackson, James Albert	B. E. E.	Paragould	Greene
Jackson, Zeb Pettigrew	B. C. E.	Muscogee	Ind. Ter.
Jefferies, Alfred Jefferson	B. A.	Clarendon	Monroe
Jennings, Dennis Russell	B. M. E.	Beebe	White
Jett, William A., Jr.	B. S.	Little Rock	Pulaski
Johnson, David Eugene	B. A.	Paris	Logan
Johnson, Walter H.	B. M. E.	Little Rock	Pulaski
Jones, Arthur Melvin	B. S.	Poteau	Ind. Ter.
Keller, Irvin	B. S.	Hot Springs	Garland
Kimball, Fletcher	B. E. E.	Little Rock	Pulaski
King, Berry	B. S.	Harrison	Boone
Lamberton, Anna Louise	B. A.	Harrison	Boone
Langston, Oscar Daniel	B. A.	Warren	Bradley
Leche, Maude Mary	L. I.	Donaldsonville	La.
Lewis, Charles Hall	B. A.	Atkins	Pope
Little, Jesse Gray	B. M. E.	Lavaca	Sebastian
Locke, Jerry Matthew	B. C. E.	Muscogee	Ind. Ter.
Mahony, Joseph Kirby	B. A.	El Dorado	Union
Mauck, Ralph Willis	B. A.	Bentonville	Benton
May, Walter Reed	B. S.	Clarksville	Johnson
McAnally, Cora Leontine	L. I.	Elm Springs	Washington
McGraw, Grover D.	B. M. E.	Altus	Franklin
McKinlay, James Miller	B. C. E.	Gartfield	Benton



Name	Course	Postoffice	County
McMillan, Fred Lee	B. E. E.	Fayetteville	Washington
Meek, Roy Settle	B. A.	Russellville	Pope
*Mellor, Jesse Lee	B. C. E.	El Dorado	Union
Miller, Myrtle Ellen	B. A.	Fayetteville	Washington
Miser, Hugh Dinsmore	B. A.	Pea Ridge	Benton
Miser, Wilson Lee	B. A.	Pea Ridge	Benton
Mitchell, Owen Cecil	B. Ch. E.	Fayetteville	Washington
Mock, Thomas Leroy Jefferson Davis Patton Cornelius	B. E. E.	Fayetteville	Washington
Moore, George Jacob	B. A.	Bentonville	Benton
Mooring, Jerry B.	B. S. A.	Cotton Plant	Woodruff
Morgan, Samuel Ross	B. S.	El Dorado	Union
Norman, Olivia	L. I.	Fayetteville	Washington
Oates, John Fount	L. I.	Martinville	Conway
Parish, Hugh Smith	B. S.	Newport	Jackson
Petit, James Lemuel	B. A.	Poteau	Ind. Ter.
Pritchard, Virgil F.	B. E. E.	Springdale	Washington
Pritchett, Frank A.	B. C. E.	Batesville	Independence
Pritchett, Robert Hugh	B. E. E.	Batesville	Independence
Pye, George Ploughman	B. A.	Sweet Home	Pulaski
Read, Alicia Johnston	B. A.	Fayetteville	Washington
Reynolds, Eddie Almon	B. A.	Branch	Franklin
Russell, Arry Lee	B. C. E.	Texarkana	Miller
Sanders, George Ezekiel	B. A.	Lonoke	Lonoke
Sanders, Lucy Edna	B. A.	Fayetteville	Washington
Semmes, Joseph Murray	B. C. E.	Osceola	Mississippi
Senyard, Fay	B. A.	Pine Bluff	Jefferson
Shepherd, Claude Harold	B. E. E.	Texarkana	Miller
Sherrod, William Vernon	B. E. E.	Goshen	Washington
Smith, Edward	B. E. E.	Cotton Plant	Woodruff
Smith, Eugene	B. E. E.	Rogers	Benton
Stacy, Hal	B. C. E.	Vanndale	Cross
Starbuck, Arwood	B. E. E.	Rocky Comfort	Little River
Stevens, William Roy	B. A.	Texarkana	Miller

Name	Course	Postoffice	County
Stokes, Walter Richard B.	C. E.	Bentonville	Benton
Sutton, Edith	B. A.	Fayetteville	Washington
Thompson, Mack Franklin	B. C. E.	Warren	Bradley
Thompson, William Elmo	B. C. E.	Warren	Bradley
Tillman, Fred Allen	B. A.	Fayetteville	Washington
Trent, Bessie	B. A.	Fayetteville	Washington
Tucker, Justin Randolph	B. S. A.	Magazine	Logan
Vaulx, Gordon Welch	B. C. E.	Fayetteville	Washington
Walls, Charles Albert	B. A.	Lonoke	Lonoke
Wear, Robert Lavater	B. A.	Mena	Polk
Welborn, Marshall Brown	B. E. E.	Howe	Ind. Ter.
Westbrook, Howell Lane	B. E. E.	Pine Bluff	Jefferson
Whittmore, Willie Leora	B. A.	Fayetteville	Washington
Wiggins, Joseph Cleveland	B. C. E.	Cecil	Franklin
Williams, Clara Elizabeth	L. I.	Eureka Springs	Carroll
Williams, Oscar Eugene	B. A.	McKinney	Texas
Witherspoon, Charles Cleborn	B. C. E.	Lonoke	Lonoke
Woodruff, Clarence Herbert	B. A.	Rhea	Washington
Woodson, Edward Francis	B. C. E.	Chant	Ind. Ter.
Yancey, Dunnington Archilus	B. A.	Batesville	Independence
Yarbrough, Charles S.	B. E. E.	Camden	Ouachita
Yowell, James	B. S. A.	Gallatin	Tenn.

Special.

Name	Postoffice	County
Barry, Lucile Lelia	Fayetteville	Washington
Berry, Fred Hugh	Bentonville	Benton
Block, David	Vanndale	Cross
Bohart, Allen G. Thurman	Fayetteville	Washington
Brownfield, Mattie	Fayetteville	Washington

Name	Postoffice	County
Burrow, Claude McKinney	Little Rock	Pulaski
Crawford, Ell	Prairie Grove	Washington
Davis, Mabel Effie	Jasper	Newton
Deloney, Ernest	Hope	Hempstead
Dickinson, Clemont	Horatio	Sevier
Dinsmore, Hamilton Atwood	Fayetteville	Washington
Droke, Mary Inez	Fayetteville	Washington
Eason, Alcuin Pitt	Fayetteville	Washington
Gray, Stella Harriet	Hickory Valley	Independence
Gregg, Alfred Welch	Fayetteville	Washington
Harvey, Annette	Vinda	Benton
Hudgins, Bessie M.	Fayetteville	Washington
Johnson, Maybelle Clare	Fayetteville	Washington
Lackey, Minnie	Fayetteville	Washington
Lefler, George Filmore	Scotland	Van Buren
McCartney, Jessie Lauve	Fayetteville	Washington
McGregor, Joseph D.	Cotton Plant	Woodruff
McKean, David Felix	De Queen	Sevier
Melton, Clyde Lee	Fayetteville	Washington
Mitchell, Sibyl Audrey	Fayetteville	Washington
Moore, Jesse Warren	Arkadelphia	Clark
Newsom, Eugene	Paragould	Greene
Parker, Arthur Clarence	Paris	Logan
Rector, William Hervey	Gillham	Sevier
Revel, John William	Augusta	Woodruff
Robbins, James Carthel	Searcy	White
Ross, Jewell	Fayetteville	Washington
Seamans, Pinkney Samuel	Dermott	Chicot
Tidball, Nellie	Baldwin	Washington
Tillman, John Walker	Fayetteville	Washington
Torrans, Paul Ward	Texarkana	Miller
Trigg, Thomas Edward	Texarkana	Miller
Vinson, William Beauchamp	Springdale	Washington
Watson, Edmond Penn, Jr.	Bentonville	Benton
Wilson, John Thaddeus	Sheridan	Grant

**Short Course in Engineering.****SECOND YEAR STUDENTS.**

Belknap, Joel Rousseau	Sulphur Springs	Benton
Boazman, Alexander Walthall	Lamar	Johnson

Name	Postoffice	County
Bryant, Roy Black	Augusta	Woodruff
Burton, Morton	Judsonia	White
Byrne, Lloyd R.	Luna	Chicot
Cox, Howell H.	Lamar	Johnson
Henderson, Jai Ruffin	Hot Springs	Garland
Hurst, John H	Clarendon	Monroe
Larrabee, Ray Ashley	Fayetteville	Washington
Martin, Samuel Frank	Fayetteville	Washington
McCloud, Benjamin Joel	Winslow	Washington
McCloud, William Daniel	Winslow	Washington
McDermott, Ben	Dermott	Chicot
Portnell, J. R.	Fayetteville	Washington
Schicker, Edward Barnes	Camden	Ouachita

FIRST YEAR STUDENTS.

Bishop, James Maloy	Fayetteville	Washington
Chandler, James E.	Fayetteville	Washington
Cotham, Fay Edward	Monticello	Drew
Goodrum, Overton Toton	Lonoke	Lonoke
Grundy, Edmund James	Mammoth Spring	Fulton
Hicks, Olin E.	Lonoke	Lonoke
Hooper, Edward Kenneth	Fayetteville	Washington
Jones, Ralph Richard	Fayetteville	Washington
McLeod, Angus A.	Fort Smith	Sebastian
Norman, Felix Augustus	Fayetteville	Washington
Portis, Frank G.	Fayetteville	Washington
Sedwick, James E.	Fayetteville	Washington
Sowell, Marion Dick	Durant	Ind. Ter.
Williams, Roy Welch	Fayetteville	Washington
Wilson, Frank	Fayetteville	Washington
Wunnenburg, Edgar C.	Cotton Plant	Woodruff

THE CONSERVATORY OF MUSIC AND ART.

NOTE The following list contains the names of those students only whose major subject is taught in the Conservatory of Music and Art.

Bryan, Zella	Fayetteville	Washington
Davis, Barbara Claire	Fayetteville	Washington

Name	Postoffice	County
Ellis, Dora	Fayetteville	Washington
Gallaway, Margaret B.	Fayetteville	Washington
Hooper, Lillian Gertrude	Fayetteville	Washington
Johnson, Lucy Edith	Harrison	Boone
Jones, Bertha Edyth	Yellville	Marion
Jones, Maud	Fayetteville	Washington
Keeney, Augusta Rothwell	Fayetteville	Washington
Manning, Irene	Clarendon	Monroe
McMillar, Della Madeline	Fayetteville	Washington
Neeley, Marie Helen	Fayetteville	Washington
Reynolds, Ruth Harwood	Fayetteville	Washington
Short, Belle	Fayetteville	Washington
Smith, Jessie	Fayetteville	Washington
Thomas, Pauline Etheland	Fayetteville	Washington
Thurston, Monte	Rector	Clay
Trimble, Mattie Eleanor	Lonoke	Lonoke
Van Valkenburgh, Carrie Emma Warren		Bradley

### THE PREPARATORY SCHOOL.

*Abbreviations.*—A., Arts course, leading to B. A. course; S., Science course, leading to B. S. course; E., Engineering course, leading to Mechanical, Civil, and Electrical Engineering courses; T., Teacher's course; Sp., Special course; C., Course in Conservatory of Music and Arts; Agr., Agriculture course.

### SECOND YEAR CLASS.

Name	Course	Postoffice	County
Abercrombie, Clara Dell	S	Pactolus	Benton
Abercrombie, Earl	E	Pactolus	Benton
Allen, Estes	A	England	Lonoke
Allen, J. Cleveland	A	Statfield	Polk
*Baker, Elbert Marvin	A	Marshall	Searcy
Baker, Frank G.	E	Fayetteville	Washington
Baker, Myrle	T	Fayetteville	Washington
Ballard, Lydia	A	Durham	Washington
Ballard, R. Carroll	S	Tillar	Drew
Barton, Dooley Edgar	A	Cove	Polk
Baum, Elias Julius	E	Fayetteville	Washington
Belknap, Beatrice Victoria	C	Sulphur Springs	Benton
Bell, James W.	E	Fayetteville	Washington
Bennett, Ora Lizzie	A	Springdale	Washington
Bernard, Joe	S	Russellville	Pope

Name	Course	Postoffice	County
Bettis, Austin Boyce	A	Chapel Hill	Sevier
Blackshire, Robert Ira	E	Crockett	Clay
Blackwood, James Quincy	S	Newport	Jackson
Blasingame, Virgie Ethel	T	Coin	Carroll
Boggs, James Franklin	T	Rose Bud	White
Bowen, Arthur Wilks	A	Osceola	Mississippi
Brown, Elizabeth Ellen	C	Fayetteville	Washington
Bryan, George A.	E	Bentonville	Benton
Buck, William Robert Wash- ington	A	Cave City	Sharp
Byrnes, Birnie	E	Fayetteville	Washington
Campbell, Madge	A	Fayetteville	Washington
Campbell, William Gordon	E	Fayetteville	Washington
Carden, Claude	S	Ink	Polk
*Carothers, Wallace Montgomery	E	Fayetteville	Washington
Carter, Nama	A	Durham	Washington
Carter, Noah Delford	A	Durham	Washington
Catching, George J.	A	Brister	Columbia
Chapman, George Arnold	E	Fayetteville	Washington
Chew, Thomas C.	A	El Dorado	Union
Cole, Kenneth Elmore	A	Gwynn	Sebastian
Comstock, Gratis M.	E	Uniontown	Crawford
Cook, Lela	S	Fayetteville	Washington
Cook, R. Wallace	E	Fayetteville	Washington
Cooper, Fred W.	E	Brinkley	Monroe
Craig, Pearl Vincent	A	Westville	Ind. Ter.
Culwell, James William	E	Goshen	Washington
Davis, Arthur Charles	E	Fayetteville	Washington
Davis, Okey Lee	E	St. James	Stone
Davis, Ora	T	Jasper	Newton
Davis, Thomas Wils	Sp	Blytheville	Mississippi
Davis, Wallace Carter	S	Little Rock	Pulaski
Dean, Herman Wakeman	E	Camden	Ouachita
Deaver, James Franklin	E	Springdale	Washington
Dowell, Grace	A	Vale	Washington
Eason, Herman Edward	E	Fayetteville	Washington
Eld, Lucy Lillian	T	Bentonville	Benton
Ellis, Forrest	A	Fayetteville	Washington

Name	Course	Postoffice	County
Ellis, Oscar Ferguson	E	Fayetteville	Washington
Fergus, Carrie Sadie	A	Elm Springs	Benton
Fesperman, William Jerome			
	Agr	Cotton Plant	Woodruff
Ford, Reth	S	Washburn	Sebastian
Futrall, Edward Becket	A	Marianna	Lee
Gray, Albert	A	Hickory Valley	Independ'ce
Grayson, Harry C.	E	Paragould	Greene
Grundy, Archibald Marshall	A	Fayetteville	Washington
Guinn, Hattie Pearl	T	Winslow	Washington
Hall, Hubert Cleveland	S	Canton	Sharp
Hamblen, William Thomas	S	Farmington	Washington
Hamilton, William Malcolm	A	Falcon	Nevada
Hardin, Jodie W.	A	Casa	Perry
Harmon, Eva	A	Fayetteville	Washington
Harper, Franklin Marion	S	El Dorado	Union
Holcomb, William Henry	E	Springdale	Washington
Holtzclaw, Hanan H.	S	Vineyard	Lee
Huggins, James Edgar	S	Ozark	Franklin
Hughes, John Jackson, Jr.	E	Haynes	Lee
Hutton, Marion Cleveland	A	Little Rock	Pulaski
Huxtable, William G.	A	Vincent	Crittenden
James, Clifton Richard	A	Newport	Jackson
James, Rex Esmerald	E	Fayetteville	Washington
Janes, Jessie I.	A	Dover	Pope
Jordan, Flossie I.	A	Blakemore	Lonoke
Jordan, James Keys	A	Blakemore	Lonoke
Keath, Everett Watterson	E	Cotton Plant	Woodruff
Keeney, Marie	A	Fayetteville	Washington
Keith, Ernest Thomas	A	Sharman	Columbia
Kennedy, Lillian R.	A	Howe	Howard
Kitchens, George Thomas	A	Waldo	Columbia
Kolb, William Burge	A	Ola	Yell
Koser, William Aubry	E	Marion	Crittenden
Lantrip, Lynn Winston	E	Fayetteville	Washington
Leeper, Fred	A	Holcomb	Sevier
Leister, Leroy Bismarck	A	Ellsworth	Logan
Leming, Mason Benjamin	S	Waldron	Scott
Lester, Mae	T	Fayetteville	Washington



Name	Course	Postoffice	County
Leverett, Blanche	A	Fayetteville	Washington
Leverett, Charles Deane	E	Fayetteville	Washington
Leverett, Whitham	S	Fayetteville	Washington
Lindly, John Moseley	E	South McAlester	Ind. Ter.
Lindsey, Elmer Marvin	E	Mangum	Okla.
Lueker, Charles G.	A	Famous	Pope
Manning, Gladys	A	Clarendon	Monroe
Masters, Effie	A	Durham	Washington
Mayes, John Edwin	E	Indian Bay	Monroe
Mayo, Walter Pointer	E	Indian Bay	Monroe
McAllister, Alonzo D.	S	Nelson	Mo.
McAllister, Madge	S	Nelson	Mo.
McCoy, Carlos	E	Fayetteville	Washington
McCoy, Myrtle	S	Fayetteville	Washington
McCray, Rose	T	Little Rock	Pulaski
McDonald, Jesse Connor	S	Augusta	Woodruff
McDonald, Joel W.	Sp	Sheridan	Grant
McKinlay, Peter Gillespie	A	Garfield	Benton
McKnight, David Arthur	S	Bee Branch	Van Buren
McNiel, Ralph Alonzo	E	Rector	Clay
McWilliams, Jesse Hubert	S	El Dorado	Union
Means, Charles Stanhope	A	Charleston	Franklin
Mitchell, Ara Evelyn	A	Fayetteville	Washington
Moore, Myrtle Bella	Sp	Cincinnati	Washington
Morton, Julia	A	Fayetteville	Washington
Murphy, Wallace Carl	A	Fort Smith	Sebastian
Myers, Grover	E	Piggott	Clay
Nance, Denver	A	Hindsville	Madison
Neelly, Lila Irma	A	Fayetteville	Washington
Nelson, John William	A	Buford	Baxter
Nesbit, William Edward	A	Fayetteville	Washington
Newman, Iva M.	S	Marion	Crittenden
Oliver, John A.	Sp	Clifty	Madison
Oliver, Lelia Ruth	C	Fayetteville	Washington
Olmstead, Cloyd Everett	E	Heber	Cleburne
Pearson, Herbert Sylvester	Sp	Rhea	Washington
Pearson, Thomas Milton	A	Rhea	Washington
Peck, Dora	A	Fayetteville	Washington
Phillips, Charles Rice	E	Goshen	Washington

Name	Course	Postoffice	County
Read, Laura	C	Fayetteville	Washington
Reed, Kate	A	Springdale	Washington
Reed, Maggie	A	Johnson	Washington
Reed, Pearl M.	A	Dutch Mills	Washington
Reed, William Howard	A	Heber	Cleburne
Reves, Charles Sumner	A	Alma	Crawford
Reves, George William	A	Alma	Crawford
Ross, Samuel	E	Fayetteville	Washington
Ross, William Browning	A	Okalona	Clark
Samuels, John Charles	T	McKinney	Texas
Sandlin, Roddy Forrest	A	Ola	Yell
Scott, Andrew Lee	A	Stattler	Crawford
Shannon, Mary Etoile	A	Fayetteville	Washington
Shook, Charles Harmon	E	Fayetteville	Washington
Smith, Anthony E.	E	Benton	Saline
Smith, Howell Rush	S	Malvern	Hot Spring
Stevens, Otis	A	Forrest City	St. Francis
Stover, Luther M.	A	Casa	Perry
Strong, John Chalmers	A	Brinkley	Monroe
Sutton, Beulah	A	Fayetteville	Washington
Sweany, Harry Judson	E	Bentonville	Benton
Terry, Francis Augustus	A	Little Rock	Pulaski
Tharp, Mattie Irene	A	Fayetteville	Washington
Thomas, Lydia C.	A	Lockesburg	Sevier
Thompson, Oley D.	S	Stattler	Crawford
Thompson, Ross Emile	E	Heber	Cleburne
Wasson, Proctor L.	E	Smithville	Lawrence
Waterfield, Elgin A.	A	Holdenville	Ind. Ter.
Webb, Joseph Watson	A	Springfield	Conway
Wells, Eustace Earle	S	Monticello	Drew
White, Felix Slown	E	Fayetteville	Washington
White, Pearl	S	Fayetteville	Washington
Whiting, Grace Marion	A	De Soto	Mo.
Williams, George A.	E	Hot Springs	Garland
Williams, Hosea Lafayette	E	Fayetteville	Washington
Williams, Walter Quincy	E	Brentwood	Washington
Wilson, Nelle D.	A	Fayetteville	Washington
Wish, John Clarence	S	Pleasant Plains	Independ'ce

Name	Course	Postoffice	County
Wolf, Arthur C.	T	McPherson	Baxter
Woodruff, Ethel Sophia	A	Rhea	Washington
Woods, John Powell	A	Yelleville	Marion
Young, Nancy Ovid	A	Booneville	Logan

FIRST YEAR CLASS.

Alexander, Mary Ella	T	Savoy	Washington
Alston, Roy	A	Chapel Hill	Sevier
Anderson, Mary Harkell	C	Fayetteville	Washington
Andrix, Annie	S	Bentonville	Benton
Babb, Walter Preston	A	Waldo	Columbia
Baker, Hugh D.	E	Harrison	Boone
Bell, Carl K.	E	Fayetteville	Washington
Bernard, Harry	S	Russellville	Pope
Black, Kate Elizabeth	S	Fayetteville	Washington
Black, Robert Lee	A	Fayetteville	Washington
Blackford, Oscar Cleveland	A	Sedgwick	Lawrence
Block, Samuel Maurice	A	Vanndale	Cross
Boles, Chalmers Barnett	E	Fayetteville	Washington
Booth, Dunlap	E	Spiro	Ind. Ter.
Bost, Edna Earle	T	Howland	Texas
Bowers, Ezra J.	E	Paris	Logan
Bracken, John Clinton	T	Charleston	Franklin
Brashears, Grover	A	St. Paul	Madison
Brown, Ethel	Sp	Fayetteville	Washington
Brown, Robert Vernon	E	Fayetteville	Washington
Brownson, Sarah E.	S	Elkins	Washington
Bruce, Maud	S	Durham	Washington
Buckelew, Ira L.	T	Slocum	Saline
Burkett, James Ralph	E	Summers	Washington
Campbell, Sylvester John	A	Fayetteville	Washington
Cannon, Roy	E	Fayetteville	Washington
Carr, Bessie	T	Prairie Grove	Washington
Carr, Perry Fielding	Sp	Prairie Grove	Washington
Carter, Bessie	A	Fayetteville	Washington
Cecil, Bessie E.	S	Vandervoort	Polk
Cecil, Emma	C	Vandervoort	Polk
Cecil, Ode W.	S	Vandervoort	Polk
Chapman, Mabel Edna	A	Fayetteville	Washington

Name	Course	Postoffice	County
Conner, Verna	A	Fayetteville	Washington
Cook, Gilbert Richard	A	Texarkana	Miller
Cook, James Frank	Agr	Fayetteville	Washington
Cook, Stuart Monroe	S	Fayetteville	Washington
Copeland, Euge	S	Piggott	Clay
Couch, William Edward	E	Baldwin	Washington
Cowling, Ora M.	A	Cowlington	Ind. Ter
Cox, Mary James Turner	A	Fayetteville	Washington
Cox, Nellie	C	Fayetteville	Washington
Crawford, Henry Vance	A	Little Rock	Pulaski
Crenshaw, Clayton Lee	E	Gwynn	Sebastian
Dale, Harrison Penn	E	Augusta	Woodruff
Davis, Henry Albert	A	St. James	Stone
Davis, Mabel Eloise	A	Fayetteville	Washington
Deane, Charles Vaulx	E	Fayetteville	Washington
Deane, Madeline Anderson	A	Fayetteville	Washington
Dent, Strother Major	E	Riverside	Woodruff
Dowell, Robbie	A	Fayetteville	Washington
Drohan, Ruby Genevieve	A	Fayetteville	Washington
Dyer, Jennie Rebecca	A	Yelleville	Marion
Edwards, Belle	A	Fayetteville	Washington
Edwards, John Richard Nelson	A	Evening Shade	Sharp
Elliott, De Floyd	A	Jonesboro	Craighead
Ellison, William Lee	E	Cane Hill	Washington
Etter, Jessie Fay	A	Chetopa	Kan.
Eudaly, Oscar	A	Powhattan	Lawrence
Fenton, James Andrew	A	Chapel Hill	Sevier
Fesperman, John Frank	E	Cotton Plant	Woodruff
Findley, W. Oscar	A	Jonesboro	Craighead
Finley, Walter	E	Lincoln	Washington
Fletcher, Benjamin Franklin	E	Baldwin	Washington
Folks, Andrew Jackson	T	Mountain View	Stone
Fraser, Robert Lee	T	Union Hill	Independence
Freeman, James W.	E	Hot Springs	Garland
Fuller, Le Roy	E	Little Rock	Pulaski
Gilbreath, Marie Lucile	C	Fayetteville	Washington
Gray, Clara Ella	A	Hickory Valley	Independence
Gray, John Harvey, Jr.	T	Bellmore	Stone

Name	Course	Postoffice	County
Green, Thomas Andrew	A	Mineral Springs	Howard
Gregg, Annie Josephine	A	Fayetteville	Washington
Gregg, Lafayette Ham	E	Fayetteville	Washington
Grubbs, William Wiley	A	Addy	Drew
Gwynn, James Anderson	E	Gwynn	Sebastian
Haley, Fanny Ruth	A	City View	Texas
Haley, Mary Iva	A	City View	Texas
Hall, Julien	A	Fayetteville	Washington
Hall, Millard Zachary	A	Mulberry	Franklin
Hall, Samuel Laban	E	Turner	Phillips
Hallman, Kelley Edgar	A	Ben Lomond	Sevier
Harris, Milton Elkanah	T	Farmington	Washington
Haskell, Frances	C	Muscogee	Ind. Ter.
Hayley, Grover	S	Mooreville	Prairie
Henbest, Margaret Deane	A	Fayetteville	Washington
Hodge, Zaidee	C	Conway	Faulkner
Hooper, Lamar Cyril	A	Fayetteville	Washington
Huffman, Annie Virginia	C	Bentonville	Benton
Hughes, Thomas Lafayette	E	Mount Pisgah	White
Hughes, Verda	C	Fayetteville	Washington
Hunter, James Marshall	S	Halliday	Greene
Huntley, Philip	E	Kirkland	Ouachita
Hurst, Anna Abanatha	A	Fayetteville	Washington
Isom, John Atlee	T	Iris	Craighead
James, Elsie Adelaide	T	Mount Pleasant	Mich.
Jarmon Sammie Gertrude	A	Fayetteville	Washington
Jarrell, Foster	A	Junction City	Union
Jeffery, Irene Randolph	T	Mount Olive	Stone
Johnson, Bert Lee	E	Fayetteville	Washington
Johnson, Clyde	S	Fayetteville	Washington
Johnson, Silvey Jay	S	Auvergne	Jackson
Kantz, Nellie Welch	A	Fayetteville	Washington
Keeney, James	A	Fayetteville	Washington
Keys, Campbell Taylor	E	Coffeyville	Kan.
King, Fred	S	Van Buren	Crawford
Kitchens, Herschell M.	A	Waldo	Columbia
Knight, Ellen	A	Fordyce	Dallas
Kunz, Clifford Harrison	E	Fayetteville	Washington
Kunz, Gladys	A	Fayetteville	Washington

Name	Course	Postoffice	County
Lanphere, Frances Matilda	Sp	Kansas City	Mo.
Lark, Hattie May	A	Lancaster	Crawford
Leister, Arthur Herbert	A	Ellsworth	Logan
Leverett, Ena	A	Fayetteville	Washington
Lewis, Clifford Adair	S	Prairie Grove	Washington
Lewis, Herschell V.	S	Shady Point	Ind. Ter.
Lewis, John Aden	T	Lewisville	Lafayette
Lindly, Charles Matlock	A	South McAlester	Ind. Ter.
Lindsey, Eralso B.	A	De Queen	Sevier
Liner, Henry Harvey	S	Hatfield	Polk
Little, Rena	A	Lavaca	Sebastian
Little, Willis	T	Dayton	Sebastian
Locke, Dale George	A	De Queen	Sevier
Looney, William Baxter	T	Six Mile	Franklin
Lueker, Traugott Friedrich	A	Famous	Pope
Magness, William Auby	S	Gwynn	Sebastian
Maguire, Audie	S	Fayetteville	Washington
Maguire, Nellie	A	Fayetteville	Washington
May, Gladys Virginia	A	Basalt	Col.
May, Raymond Claire	A	Clarksville	Johnson
Mayes, Ethel Esther	A	Goshen	Washington
McCartney, Mary Isabell	A	Fayetteville	Washington
McCarty, Ralph L.	E	Fayetteville	Washington
McClendon, Leigh	A	Lewisville	Lafayette
McCoy, Helen	A	Fayetteville	Washington
McGregor, Josie Ernestine	A	Powell	Marion
McMillan, Eula	C	Fayetteville	Washington
McQuiston, Helen	T	Clifty	Madison
Milford, Clinton George	E	Ben Lomond	Sevier
Milligan, Ruby	T	Layetteville	Washington
Mitchell, Allie May	S	Fayetteville	Washington
Montcalm, Surrius Rector	E	Earle	Crittenden
Moon, Van Tyson	E	Kirkland	Ouachita
Moore, Erin V.	A	Cincinnati	Washington
Moore, John Wilburn Ross	A	Wilcockson	Newton
Moore, Katharine	A	Fayetteville	Washington
Moore, Marguerite Mabel	C	Fayetteville	Washington
Moore, Nita	A	Fayetteville	Washington
Morton, James Herbert	E	Fayetteville	Washington

Name	Course	Postoffice	County
Morton, Pauline	A	Fayetteville	Washington
Munn, William Henry	A	Bodcaw	Nevada
Murphy, Jefferson Davis	A	Junction City	Union
Myatt, Francis Lamar	E	Kirkland	Ouachita
Neeley, Samuel	E	Hindsville	Madison
Nelson, Hope	Sp	Redfield	Iowa
Nesbit, Zoie Pauline	A	Fayetteville	Washington
Nicks, Hubert Archie	A	Pocahontas	Randolph
Nicks, Ruth	A	Pocahontas	Randolph
Oates, Max Bruce	Agr	Pottsville	Pope
Oates, Samuel Clarence	T	Oppello	Conway
Oliver, Nora Catherine	T	Clifty	Madison
Orr, Grover Cleveland	E	Mount Moriah	Nevada
Patterson, Armon Washington	A	Hillsboro	Union
Peak, Robert Frank	S	Grand Lake	Chicot
Peer, Clyde A.	E	Mansfield	Sebastian
Pool, William Walter	Agr	Thompson	Washington
Porter, Henry Otis	Agr	Fayetteville	Washington
Portis, Beulah	S	Tomberlins	Lonoke
Pratt, Gladstone Camden	E	Fayetteville	Washington
Reed, John Alvis	A	Fayetteville	Washington
Reeves, Joseph Arch	Sp	Mena	Polk
Reynolds, Cadmus Price	E	Atkins	Pope
Reynolds, Roy Randolph	E	Henrietta	Ind. Ter.
Rhea, Powell McClellan	E	Fayetteville	Washington
Rhea, William Edward	E	Fayetteville	Washington
Robbins, Cener	T	Fayetteville	Washington
Roberts, Delparde Washington	T	Brazils	Saline
Roberts, W. Edgar	E	Baldwin	Washington
Rodgers, Horace Edwin	E	Fayetteville	Washington
Ross, Frank	Agr	Fayetteville	Washington
Sanders, Albert M.	Agr	Fayetteville	Washington
Sanders, Allen Irene	A	Fayetteville	Washington
Sedwick, Bessie	A	Fayetteville	Washington
Shannon, Charles Grady	A	Fayetteville	Washington
Shaver, Bishop Earl	A	Charleston	Franklin
Shaver, Ollie Winfield	A	Vanndale	Cross



Name	Course	Postoffice	County
Shelton, Agnes Deane	A	Fayetteville	Washington
Shelton, Walter Clyde	E	Grays	Woodruff
Sherrod, Mamie	A	Goshen	Washington
Simmons, Claudine	A	Fayetteville	Washington
Simmons, Eloys	A	Fayetteville	Washington
Sloan, Bessie Edna	S	Fayetteville	Washington
Slocum, Allen Leslie	E	Elk City	Kan.
Smith, Clara May	C	Bentonville	Benton
Snell, Merrill Fouser	A	Gaither	Boone
Sowell, Ernest Henry	A	Little Rock	Pulaski
Spear, Bertha	T	Dora	Crawford
Stearnes, Nellie May	A	Fayetteville	Washington
Stephens, Frank	E	Fayetteville	Washington
Stephenson, John Calvin	A	De Queen	Sevier
Stone, William Dudley	E	Fayetteville	Washington
Summers, Irene Louise	C	Fayetteville	Washington
Taylor, Grace	C	Fayetteville	Washington
Taylor, Ralph Lewis	E	Fayetteville	Washington
Terry, Ernest Benjamin	S	Forrest City	St. Francis
Thomas, William Ferd	A	Piggott	Clay
Thompson, Augustian Nathaniel	A	Spiro	Ind. Ter.
Thurman, Andrew	E	Fayetteville	Washington
Tolley, John Hiram	E	Eureka Springs	Carroll
Tucker, Moseley Clarence	A	Magazine	Boone
Vaughan, Hanibal	T	Moreland	Pope
Vestal, Mamie Letitia	A	Stattler	Crawford
Vines, Crawford Lurkin	A	Hillsboro	Union
Wade, George B.	E	Fayetteville	Washington
Warnock, Leslie	E	Elliott	Ouachita
Webb, Ulys	E	Manitow	Okla.
West, Samuel Earl	A	Lavaca	Sebastian
Wilkinson, James Edward	E	Charleston	Franklin
Williams, Clifton M.	E	Fayetteville	Washington
Williams, Louise Addie	C	Fayetteville	Washington
Willis, John Edmond	S	Little Rock	Pulaski
Wilson, Lena Grace	S	Fayetteville	Washington
Womble, Vivian	E	Farmersville	Texas
Wood, Lester	E	Fayetteville	Washington

Name	Course	Postoffice	County
Wood, Ina Ruth	A	Fayetteville	Washington
Woodfin, Roy	A	Brinkley	Monroe
Woodson, Robert Everett	T	Mount Pisgah	White
Woosley, Hattie	A	Fayetteville	Washington
Yancey, John Crockett	Agr	Batesville	Independence
Yates, William N	E	Fayetteville	Washington
Zufall, Lula Maud	T	Van Buren	Crawford

UNCLASSIFIED.

Bryan, Lyle	Fayetteville	Washington
Fantina, Bertha	Batesville	Independence
Hickman, Chester	Cartersville	Ind. Ter.
Lowdermilk, William Brewer	Clinton	Van Buren
Nettleship, Frank	Fayetteville	Washington
Orrell, Jefferson	Morrilton	Conway
Sanders, Bruce	Centralia	Ind. Ter.

UNIVERSITY OF ARKANSAS MEDICAL SCHOOL.

Matriculates, 1904-1905.

Abbott, C. C.	Hammett, O. N.	Muse, J. M.
Acree, W. E.	Hardin, Miss Nina V.	Nelson, F. L.
Adams, T. L.	Hardy, H. B.	Noughn, Robert
Alford, T. F.	Hardy, J. T.	Nowlin, Walter
Allen, Charles	Hare, R. P.	Oates, L. T.
Allen, R. L.	Harkins, R. A.	Oberholtzer, Miss Ollie
Atkins, W. T.	Harris, C. L.	Oliver, R. B.
Baines, Swartz	Harris, M. L.	Pate, L. H.
Bearden, Fred	Harris, R. L.	Pearson, W. H. M.
Bell, Minto	Hartsell, R. L.	Pittman, W. G.
Berry, F. O.	Harvey, G. A.	Powell, J. W.
Berryman, L. D.	Hathaway, A. H.	Powell, P. R.
Bevill, S. D.	Hathaway, W. G.	Pratt, J. B.
Billington, J. E.	Hays, J. F.	Purtell, M. B.
Black, W. H.	Hearn, J. W.	Quidor, J. E.
Blakely, G. W.	Herron, W. F.	Ray, J. A.
Blakely, M. M.	Hodges, E. E.	Reagan, L. D.
Bogart, H. D.	Hofman, John	Redden, Elmer
Bohannon, J. H.	Holiman, J. E. T.	Rizer, T. C.
Bollinger, W. H.	Hooper, Z. A.	Roberts, J. L.
Branseum, Sherman	Horton, Neal	Roberston, A. B.

Brewer, T. E.	Hughes, F. A.	Robinson, G. M.
Brumbelow, A. D.	Huie, Henry	Rogers, W. S.
Buchanan, A. S.	Hutto, T. B.	Rollans, H. G.
Burge, J. W.	Iles, J. T.	Rose, F. C.
Burnett, Ernest	Ingram, E. M.	Ross, T. A.
Burnett, M. C.	Irby, W. D.	Routh, C. M.
Burris, C. L.	Jeffrey, P. H.	Rushing, F. E.
Bush, J. W.	Jewell, I. H.	Sadler, W. L.
Butler, V. V.	Johnson, N. J.	Scott, Early
Calaway, W. L.	Johnson, S. C.	Scott, L. L.
Campbell, Bynam	Johnston, O. J. T.	Shamblin, D. W.
Cantrell, J. M.	Judd, O. K.	Shaw, J. B.
Carter, G. W.	Junkin, S. P.	Shinn, T. J.
Casada, B. F.	Keeter, P. H.	Shy, D. E.
Cason, J. R.	Kelleam, E. A.	Sickler, L. U.
Cates, T. H.	Kelley, B. F.	Simmons, J. A.
Clark, F. M.	Kelley, J. H.	Simms, A. J.
Clark, Guy	Kelly, M. B.	Smith, H. H.
Coffee, O. F.	Kessinger, J. S.	Smith, S. E.
Coffman, J. S.	King, Edgar	Sneed, R. H.
Colay, J. H.	King, H. C.	Spillers, H. F.
Cole, Arch	King, K. W.	Staton, J. W.
Cole, C. F.	King, R. R.	Stiles, G. S.
Combs, A. M.	Leslie, W. S.	Stover, G. C.
Cowan, Fred	Lester, J. L.	Summers, J. A.
Crump, J. F.	Lester, W. T.	Tate, Alvie
Daily, J. N.	Lett, L. M.	Taylor, W. L.
Davenport, A. L.	Lewallyn, Nelson	Thompson, A. P.
Dejarnatt, J. W.	Linzy, C. B.	Thompson, Charles
Denton, R. F.	Long, Mrs. N. L.	Thompson, G. R.
Dillard, J. A.	Luck, J. L.	Tipton, W. C.
Dillard, W. H.	Mabry, Tom	Tompkins, J. B.
Dooley, J. B.	Manley, R. N.	Utley, V. T.
Downey, R. L.	Martin, J. W.	Wadley, B. L.
Downs, J. H.	Mason, J. J.	Wadley, L. D.
Fair, E. N.	Mathews, E. L.	Walker, J. C.
Flanders, J. A.	Maxwell, R. L.	Walker, J. W.
Fowler, Arthur	Mayfield, A. M.	Ware, B. L.
Gaddy, Louis	McDonald, C. S.	Watson, C. A.
Gephart, R. T. M.D.	McFerrin, J. O.	Wayman, A. K.

Gibbons, W. H.	McGraw, S. J.	Wayne, J. R.
Gilliam, W. C.	McMahan, J. S.	White, L. W.
Gillum, A. D.	McMath, J. T.	Wilkinson, S. L.
Glover, A. J.	McNiel, M. P.	Williams, C. X.
Glover, R. A.	McPherson, W. G.	Wilson, C. D.
Goodwin, William	McRae, W. M.	Wilson, J. W.
Gray, E. M.	Mease, W. E.	Wilson, W. H.
Gray, L. C.	Mitchell, J. D.	Woodul, T. W.
Green, W. C.	Mooney, Leon	Wright, R. N.
Griffin, E. P.	Moore, W. T.	Yates, G. W.
Gullett, J. E.	Morgan, G. D.	Youmans, H. D.
Hackler, C. A.	Morton, E. L.	
Hall, R. J.	Munn, J. A.	

## UNIVERSITY OF ARKANSAS LAW SCHOOL.

## Matriculates 1904-1905.

Abererombie, J. S.	Chalmers, Ark.
Apple, W. J.	Austin, Ark.
Arbuckle, John D.	Booneville, Ark.
Baker, G. W.	Junet, Ark.
Berry, Benjamin F.	Little Rock, Ark.
Castle, J. T.	Havana, Ark.
Chamberlin, Horace	Vicksburg, Miss.
Cochran, E. E.	Ashdown, Ark.
Cooper, Aransas R.	Little Rock, Ark.
Dudley, R. H.	Piggott, Ark.
Dulaney, A. D.	Foreman, Ark.
Dunaway, M. E.	Conway, Ark.
Ferguson, R. F.	Morrilton, Ark.
Gray, Harry	Little Rock, Ark.
Greer, W. L.	Little Rock, Ark.
Gregson, J. E.	Harrison, Ark.
Hale, Harry C.	Little Rock, Ark.
Hinemon, J. H.	Arkadelphia, Ark.
Hobbs, Henry T.	Fourche Dam, Ark.
Holland, Robert Chester	Greenwood, Ark.
Macon, McCord	Little Rock, Ark.
McConnell, G. A.	Little Rock, Ark.
McDonald, Fred W.	Little Rock, Ark.

Reed, J. B.....	Lonoke, Ark.
Riffel, C. K.....	Little Rock, Ark.
Rogers, S. W.....	Riley, Ark.
Rowe, Prentiss Eldan.....	Greenwood, Ark.
Rowland, J. S.....	Harrison, Ark.
Roundtree, Micajah.....	Delight, Ark.
Rutherford, T. E.....	Hot Springs, Ark.
Scoggins, William T.....	Hot Springs, Ark.
Scott, Homer.....	Little Rock, Ark.
Scougale, Almerin.....	Little Rock, Ark.
Toney, W. B.....	Allen, I. T.
Townsend, Wallace.....	Little Rock, Ark.
Triggle, Ernest E.....	Little Rock, Ark.
Vick, John A.....	Little Rock, Ark.
Walser, C. M.....	Little Rock, Ark.
Wayman, Clair.....	Little Rock, Ark.
Webster, F. B.....	Little Rock, Ark.
Williams, W. O.....	Hot Springs, Ark.
Wilson, J. R.....	Warren, Ark.

## GENERAL SUMMARY OF STATISTICS.

Graduates.....	7
Seniors.....	34
Juniors.....	58
Sophomores.....	82
Freshmen.....	131
Special Students.....	40
Short Course Students in Engineering.....	31
Conservatory Students.....	19
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Total Number of Collegiate and Conservatory Students.....	400
Second Year Preparatory Students.....	171
First Year Preparatory Students.....	232
Matriculated, but not classified in the Preparatory School.....	7
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Total.....	410
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Total Number of Students at Fayetteville.....	810
Medical School (Little Rock).....	212
Law School (Little Rock).....	42
Branch Normal College (Pine Bluff).....	206
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Grand Total.....	1,270

**Degrees.**

On Commencement Day, June 16, 1904, degrees were conferred by the trustees of the University of Arkansas, as follows:

**B. A.**

Abercrombie, James Scott	Phillips, Charles Oliver
Blanchard, Fay Holbrook	Shellenberger, Alice
Burney, Margaret Sue	Stone, Benjamin Hicks
Cook, Larue Jean	Swearingen, Samuel Conrad
Davies, Mary Louise	Vaulx, Elenor
Droke, Marvin Josephine	Walker, James Walter
Harding, Arthur McCracken	Williams, Charles X.
Langford, Bertram William	Wilson, John Rufus
Milum, Ray Wamon	Wilson, William Oscar
Mullins, George Walker	

**B. S.**

Nelson, Rufus Jeremiah

**B. S. A.**

Morrow, Hugh Ellis

**B. M. E.**

Leverett, Edward Vaulx	Quarles, Tevis Randolph
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**B. C. E.**

Knott, Virgil Proctor	Wood, Charles Fox
Stanford, Albert Franklin	

**B. E. E.**

Bloom, John Rhine	McAlester, Edward William
Chapple, Earl White	Risser, Thomas Scott

**B. MUS.**

Gregg, Sarah Edna

**E. E.**

Treadway, Theodore Charles, B. B. B.

**M. D.**

April, 15, 1904, the degree of M. D. was conferred by the University of Arkansas upon the following candidates:

Carmichael, A. L.	Melton, J. W.	Prickett, Charles
Davenport, J. W.	Mitchell, R. L.	Roe, J. B.
Dibrell, J. L.	McCurry, D. K.	Routh, H. P.
Glover, C. A.	Odgen, M. D.	Scott, C. V.
Gray, Oscar	Poe, W. D.	Woods, G. G.
Hawkins, B. H.	Poynor, E. E.	Yates, George
Joyce, M. J. H.		

**LL. B.**

June 10, 1904, the degree of LL. B. was conferred by the University of Arkansas upon the following candidates:

Brookfield, James Campbell	Hughes, Wallace Graves
Cox, John Bruce	Johnson, James Hickerson
DuVal, Herbert Thackeray	McHaney Edgar Lafayette
Haden, Horatio Hugh	Trimble, Thomas Clark
Huffmaster, Ross	Ware, Elbert M.



# GRADUATES OF THE UNIVERSITY OF ARKANSAS.

## College Alumni.

NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
Abernethy, J. S.	B. A.	1904	Representative in General Assembly	Chadmers
Abernethy, G. C.	B. A.	1900	Lawyer	Warren
Aiken, D. C. B.	C. E.	1889	Civil Engineer	
Alden, R.	B. A.	1902	Assistant Cashier, Grove Bank	Grove, I. T.
Allen, Edna	B. A.	1896	Teacher	Muscogee, I. T.
Anderson, L. S.	B. L. L.	1884	Clerk in Land Office	Washington, D. C.
Arbuckle, J. D.	B. A.	1892	County Clerk	Paris
Armistead, C. F.	B. A.	1893	Captain, Sixth Artillery, United States Army	San Francisco, Cal.
Ash, L. R.	B. C. E.	1893	Deaughtsman, Waddell & Hedrick	Kansas City, Mo.
Askew, G. H.	B. A.	1898	Insurance Agent	Little Rock
Askew, Nancy E.	B. A.	1901	Mrs. C. N. Weems	Searcy
Askew, W. H.	B. A.	1897	Lawyer	Magnolia
Ayers, W. E.	B. C. E.	1898	Chief Engineer, Mississippi Valley Railway	Osceola
Barnett, Nettie	B. L.	1876	Mrs. C. P. Boles	Fayetteville
Barr, Ida	B. S.	1896	Mrs. R. E. Bagley	Cameron, Mo.
Barton, R. B.	B. Ph.	1902	Secretary, St. Francis Levee Board	Memphis, Tenn.
Bates, C. O.	B. A.	1883	Professor of Chemistry, Coe College	Cedar Rapids, Iowa
Bates, Nora Madge	B. A.	1903	High School Teacher	Kerens, Texas
Bates, J. H.	B. A.	1886	Lawyer	Corsicana, Texas
Baxter, J. W.	B. A., B. S.	1902	Townsite Agent	Fort Smith
Beakley, J. D.	B. Ph.	1902		England
Beattie, Mary	B. A.	1896	Teacher, Deaf Mute School	Flint, Mich.
Bell, J. C.	B. A.	1894	Physician, 173 Sixth Street	Memphis, Tenn.
Bell, M. L.	B. A.	1898	Lawyer	Chicago, Ill.
Bevers, A. W.	B. A.	1898	Principal, Public School	Springdale
Bibb, Blanche	B. A.	1893	Mrs. G. A. Humphreys, Hotel Endicott	New York City
Billings, F. M.	B. C. E.	1903	Civil Engineer	Fort Washington, Md.
Black, J. W.	B. A.	1892	Lawyer	M. Alester, I. T.
Blackwell, W. I.	B. C. E.	1892	Engineer	Golden Lake
Blair, J. H.	B. C. E.	1899	Designer, Virginia Bridge and Iron Works	Roanoke, Va.
Blakely, Nora	B. A.	1878	Mrs. H. M. Hudgins	Fayetteville
Blanchard, Fay H.	B. A.	1904		Fayetteville
Blaylock, J. C.	B. C. E.	1903	Detailer, American Bridge Company	Chicago, Ill.
Bloom, J. R.	B. E. E.	1904	Assistant in Electrical Engineering and Physics	University of Ark.

NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
*Booth, W. P.	B. A.	1882		
Borden, Alice		1877		
Bostick, J. A.	B. S.	1901		Little Rock
*Botefur, Laura D.		1875	Mrs. G. W. Schulte	
Bowles, P.	B. C. E.	1888	Civil Engineer.	Tishomingo, I. T.
Boyd, W. E.	B. A.	1896	Lawyer.	Cooper, Texas
Bralv, Amanda	B. S.	1896	United States Census Department.	Washington, D. C.
Braley, Etta	B. S.	1896	Mrs. Thomas McColloch.	Cane Hill
Braley, E. H.	B. A.	1894	With O & C. C. Ry. Construction Department.	Fayetteville
Braley, E. K.	B. M. E.	1897	Civil Engineer.	St. Louis, Mo.
Brewer, O. P.	B. S.	1893		Webber's Falls, I. T.
Brewster, H.	B. A.	1903	Principal of Schools.	Coal Hill
Briggs, O. D.	B. A. B. Ph.	1902	Helena World.	Helena
Brixey, A. M.	B. A.	1890	Hardware Dealer.	Mounds, I. T.
Brown, E. T.	C. E.	1900	First Assistant Division Engineer, B. & O. Ry.	Pittsburg, Pa.
Brown, F. I.	B. M. E.	1902	Mechanical Engineer	Little Rock
Brown, H. S.	M. E.	1901	Student, Cornell University.	Ithaca, N. Y.
Brown, W. D.	B. A.	1882	Physician.	Newtonia, Mo.
Brvan, L. B.	B. C. E.	1903	Student, Cornell University.	Ithaca, N. Y.
Buchanan, H. E.	B. A.	1902	Professor of Mathematics, Lincoln College	Lincoln, Ill.
Burney, M. Sue	B. A.	1904	Teacher	Clarendon
Butler, H. M.	B. A.	1879		
Campbell, J. L.	B. A.	1897	Traveling Salesman.	Greenwood
*Carden, E. B.	B. L.	1877		
*Carnall, Ella	A. M.	1881		
Carrigan, A. H.	B. A.	1882	Lawyer.	Wichita Falls, Texas
Carson, Ann E.		1875	Mrs. John Knight	Jonesboro
Carson, Augusta O.		1875	Mrs. T. W. Cline	Downey, Cal.
Cartwright, W. W.	B. A. B. S.	1903	Fruit Grower.	Mountain View
Chanslor, C. K.	B. A.	1882	Cashier, Farmers' and Merchants' Bank.	Cassville, Mo.
Chapple, E. W.	B. E. E.	1904	Little Rock Traction Co.	Little Rock
Cherry, W. R.	B. A.	1882		
Clancy, W. Jr.	B. C. E.	1902	Mining Engineer	Butte, Mont.
Clark, E.	B. A.	1903	Medical Student, Johns Hopkins University	Baltimore, Md.
Cochrane, V. H.	B. C. E.	1901	Chief Draughtsman, Waddell & Hedrick.	Kansas City, Mo.
Collier, J. T.	B. A.	1901	Principal of Schools.	Charleston
Connellv, S.	B. A.	1900	Farmer.	Poplar Grove
Cook, L. J.	B. A.	1904	W. G. Cook's Law and Real Estate Office.	Texarkana

\*Deceased.

NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
Cravens, Jessie.....	B. L. L.	1883	Mrs. O. L. Cravens.....	Neosho, Mo.
Crawford, W. A.....	B. A.	1901	Superintendent of Schools.....	Arkadelphia
Crozier, A. B.....	B. E. E.	1879	Electrical Engineer.....	Omaha, Neb.
Crozier, Elizabeth E.....	B. A.	1903	Mrs. H. C. Evins.....	Morrow
Crozier, W. N.....	B. A.	1888	Missionary Lecturer.....	Fayetteville
Cummings, R. N.....	B. A.	1898	Physician.....	Salt Lake City, Utah
Curry, Lula.....	B. S.	1892	Mrs. G. L. Teller.....	Chicago, Ill.
Danaher, M.....	B. A.	1888	Lawyer.....	Pine Bluff
Daniels, H. T.....	B. C. E.	1903	Freight Agent, N. & W. Ry.....	Little Rock
Davies, Hadgie B.....	B. A.	1893	Adjunct Professor, English and Modern Languages.....	University of Ark.
Davies, Lila.....	B. A.	1896	Mrs. Claude Head.....	Texarkana
Davies, Mary Louise.....	B. A.	1904	Teacher.....	Texarkana
Davis, F. H.....	B. C. E.	1903	Junior Engineer, Mississippi River Commission.....	Memphis, Tenn.
Davis, J. H.....	B. E. E.	1901	Electrical Engineer.....	Altoona, Penn.
Davis, B. F.....	B. A., B. S.	1901	.....	Benton County
Davis, Lizzie P.....	.....	1875	Mrs. R. C. Brown.....	Florence, Ariz.
Dickinson, Ruth Anne.....	B. A.	1900	Mrs. Elliott Berry.....	Bentonville
Dickinson, T. T.....	B. A.	1900	Lawyer.....	Little Rock
Dixon, W. E.....	B. A.	1888	Teacher.....	Waldo
Drake, C. H.....	B. C. E.	1891	.....	.....
.....	C. E.	1894	Engineer.....	Helena
Drake, N. F.....	B. C. E.	1896	Consulting Geologist.....	Tien-tsin, China
Drees, C. J.....	B. E. E.	1896	Member of Arkansas Electric Manufacturing Co....	Little Rock
Droke, G. W.....	A. M.	1880	Professor of Mathematics.....	University of Ark.
Droke, Leila Ruth.....	B. A.	1903	High School Teacher.....	Springdale
Droke, M. Josephine.....	B. A.	1904	High School Teacher.....	Springdale
Duncan, W. H.....	B. L. L.	1884	Lawyer.....	Conway
Dyer, Mallie.....	B. A.	1894	Prof. of English and German, Florida State College ..	Tallahassee, Fla.
Earle, Clara.....	B. A.	1896	Prof. of Modern Languages, Cumberland University.....	Lebanon, Tenn.
*Edmiston, W. L.....	B. L. L.	1884	.....	.....
Eld, Amanda A.....	B. A.	1898	Teacher.....	Tuskahoma, I. T.
Eld, C. J.....	B. C. E.	1896	Engineer, American Water Works & Guaranty. Co.....	St. Joseph, Mo.
Eld, G. W.....	B. M. E.	1900	Engineer with Armour Packing Co.....	St. Joseph, Mo.
Ellis, P. W.....	B. A.	1881	Lieutenant, United States Army.....	Fayetteville
Ellis, J. R.....	B. E. E.	1903	Bluff City Lumber Company.....	Pine Bluff
Ellis, W. Y.....	B. E. E.	1902	Instructor, Branch Normal College.....	Pine Bluff
England, W. W.....	B. A.	1883	.....	.....
Erwin, A. T.....	B. S.	1901	Asst. Prof. of Horticulture, State Agricultural Coll...	Ames, Iowa

\*Deceased

NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
*Filmore, C. R.	B. S.	1899		
Fishback, L. F.	B. S.	1889	Lawyer.	Alvin, Texas
Floyd, J. C.	B. A.	1879	Lawyer, and Member of Congress	Yellville
Flynn, W. M.	B. A.	1888	Teacher	Kennedale, Texas
Freeman, W. A.	B. A., B. S.	1901	Student of Engineering University of Arkansas	
Galloway, Rowena M.	B. A.	1902	Instructor, Presbyterian College	Milford, Texas
Gannaway, J. R.	B. A.	1890	Lawyer.	Warren
Gates, D. D.	B. A.	1884	County Judge, Desha County	Arkansas City
Gibson, P. I.	B. S.	1902	Graduate Student.	University of Ark
Gibson, J. E.	B. M. E.	1894	Engineer, American Pipe & Manufacturing Co.	Philadelphia, Pa.
Goodwin, W. P.	B. L. L.	1884	Lawyer, and Member of State Senate	Warren
Gordon, Belle E.	B. A.	1876	Librarian	Chicago, Ill.
Gray, W. D.	B. A.	1900	Teacher, Military School	Peekskill, N. Y.
Greaves, C. D.	B. A.	1883	Lawyer	Hot Springs
*Gregg, A. W.	B. A.	1876		
Gregg, A. S.	B. A.	1878	Physician	Fayetteville
Gregg, L. W.	B. A.	1882	Lawyer	Fayetteville
Hall, C. E.	B. C. E.	1893	D. & R. Ry.	Dardanelle
Hall, H. J.	B. A.	1894	Editor	Waldron
Hamilton, W. J.	B. A.	1892	Principal of Public Schools	Huntington
Hardin, Lena J.	B. A.	1902	Teacher	Fayetteville
Hardin, Nina V.	B. A.	1902	Student, University of Arkansas Medical School	Little Rock
Harding, A. M.	B. A.	1904	Teacher, Hinemon University School	Monticello
Harris, Agnes	B. A.	1876	Mrs. W. T. Johnson, 3560 North Broadway	Kansas City, Mo.
Harris, Sara F.	B. A.	1876	Mrs. C. P. Conrad, 3560 North Broadway	Kansas City, Mo.
Harris, W. M.	B. A.	1903	Law Student, Columbia University	New York City
*Harrison, Grace	B. S.	1889	Mrs. T. L. Brown	
Harrod, J. H.	B. A.	1879	Lawyer	Little Rock
Hart, J. C.	B. A.	1885	Chancellor	Little Rock
Hawkins, J. T.		1879	Physician	Mount Holly
Head, J. D.	B. A.	1894	Lawyer	Columbia
Heberly, J. A.	B. S.	1893	Chemist	Germany
Hedrick, I. G.	C. E.	1892	Firm of Waddell & Hedrick, Consulting Engineers	Kansas City, Mo.
Henderson, G. D.	B. A.	1901	Lawyer	Little Rock
Hervey, W. R.	B. S.	1890	Lawyer	Los Angeles, Cal.
Hillis, E. W.	B. L. L.	1884	Lawyer	Jonesboro
*Hobbs, J. H.	B. A.	1888		
Hobbs, W. D.	B. A., B. S.	1901	Postoffice Clerk in Phillipine Islands	Manila.

\*Deceased.

NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
Hon. Daniel	B. A.	1882	Lawyer	Waldron
Holcomb, Cener	B. A.	1892	Mrs. E. F. Ellis	Fayetteville
Holcomb, Jobelle	B. A.	1898	Teacher, Cumberland College	Clarksville
Holt, F. W.	B. A.	1903	Assistant Paymaster, United States Navy	Battle Ship Wisconsin
Honnett, A. M.	B. E. E.	1903	Electrical Engineer, Laclede Gas Company	St. Louis, Mo.
Hornor, J. L.	B. A.	1900	Lawyer	Helena
Horsfall, F.	B. S.	1900	Missouri State Fruit Experiment Station	Mountain Grove, Mo.
Horton, S. A.	B. A.	1891	Lawyer	Fairview
Howell, E.	B. A.	1901	Teacher, Southwest Virginia Institute	Bristol, Va.
Howell, J. W.	B. S.	1897	First Lieut., Fourth Infantry, United States Army	
Hudgins, W. H.	B. C. E.	1901	Civil Engineer	Mena
Hudson, J. H.	B. L. L.	1884	Farmer	Dardanelle
Hue, R. W. Jr.	B. A.	1899	Banker	Arkadelphia
Humphreys, G. A.	B. A.	1890	Physician, Hotel Endicott	New York City
Jennings, E.	B. A.	1877		
Jones, G.	B. L. L.	1882	Lawyer	Newport
Johnson, A. P.	B. A.	1876	Lawyer	Winfield, Kan.
*Johnson, T. M.	B. L. L.	1880		
Kimball, G. H.	B. C. E.	1892	Engineer, Superintendent of Public Works	Little Rock
King, Artelle Alice	B. L. L.	1880	Mrs. J. C. Belt	Brooken, I. T.
Kinsworthy, E. B.	B. L. L.	1885	Ex-Attorney General of the State of Ark.; Lawyer	Little Rock
Kirby, F. B.	B. A.	1889	Physician, City Hospital	St. Louis, Mo.
Kitchens, T. B.	A. M.	1880	Banker	Paragould
Knott, V. P.	B. C. E.	1904	Instructor in Civil Engineering	University of Ark.
Lake, Ella	B. L. L.	1884	Mrs. S. W. Barnett	Viney Grove
Lander, R. S.	B. C. E.	1904	Civil Engineer, W. H. Hunt Co.	Ziegler, Ill.
Langford, B. W.	B. A.	1904	Bookkeeper, National Cotton Oil Co.	Pine Bluff
Langford, W. H.	B. A.	1880	Banker; Trustee, University of Arkansas	Pine Bluff
Lanier, J. A.	B. A.	1882		
Leverett, Abbie	B. A.	1894	Mrs. John H. Taff	Shafter, Texas
Leverett, E. V.	B. M. E.	1904	Graduate Student	University of Ark.
Leverett, Mary	B. A.	1886	Mrs. J. A. Taff	Washington, D. C.
Leverett, Rose C.	B. A.	1897	Mrs. T. A. Edwards	Cordell, Okla.
Lipsey, D. B.	B. S.	1896	Bookkeeper for Conner & Co.	Fayetteville
Longino, J. L.	B. E. E., B. M. E.	1903	Electrical and Mechanical Engineer	St. Louis, Mo.
Marrs, S. E.	B. A.	1879	Editor of the Democrat	Fayetteville
Marshall, I. C.	M. A.	1879	Lawyer	Little Rock

\*Deceased.

NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
Martin, M	M. E.	1891	Mechanical Engineer, 3130 High Street	Denver, Col.
Martin, Pearl	B. S.	1893	Teacher	Fayetteville
Massie, J. C.	B. A.	1877	Salesman	Fayetteville
Martineau, J. E.	B. A.	1896	Lawyer, and Member of General Assembly	Little Rock
Mayes, J. F.	B. A.	1883	Lumber Dealer	Fayetteville
McAlester, E. W.	B. E. E.	1904		McAlester, I. T.
McCam, W. R.	M. A.	1898	In business	Little Rock
McConnell, J. L.	B. C. E.	1902	Supt. Construction, L. & So. Ind. Traction Co.	Louisville, Ky.
McDonough, J. B.	B. A.	1882	Read & McDonough, Attorneys	Fort Smith
McFarlane, R. W.	B. A.	1882		
	M. A.	1884	Lawyer; Member of State Capitol Commission	Greenwood
McGehee, A.	B. A.	1903	Law Student Columbia University	New York City
McKinney, C. F.		1875	Firm of Ferguson-McKinney Dry Goods Co.	St. Louis Mo.
McNeeley, J. C.	B. C. E.	1889	Planter	Rackensack
McNeill, D. A.	B. M. E.	1897	Superintendent of Factory	Salem, Ohio.
McRea, C.	B. C. E.	1901		Mount Holly
Means, E. D.	B. A.	1900	Teacher	Paris
Mellette, W. M.	B. L.	1877	Mellette & Smith, Attorneys	Vinita, I. T.
Melton, Hattie C.	B. A.	1903	Mrs. M. L. Cotton	Huntington
Middleton, Mai	B. A.	1886	Mrs. R. Chasteen	Pawnee, Okla.
Middleton, R. J.	B. C. E.	1903	Engineer with W. H. Bryant Co.	Kansas City, Mo.
Milum, R. W.	B. A.	1904	In business	Harrison
Mitchell, S. A.	B. A.	1903	Law Student, University of Michigan	Ann Arbor, Mich.
Mobberly, H. P.	B. C. E.	1894	Civil Engineer, Southern Pacific Railway	Natchez, Miss.
Mock, E. L.	B. A.	1894	With W. D. Cleveland & Son, Cotton Merchants	Houston, Texas.
Mock, L. Byrd	B. A.	1894	Graduate Student	University of Ark.
Moore, B. L.	B. A.	1900	Lawyer	Van Buren
Moore, J. F.	B. S.	1893	Dealer in Furniture	Fayetteville
Moore, J. H.	B. S.	1893	Chemist, Mathieson Alkali Chemical Co.	Saltville, Va.
Moore, J. I.	B. A.		Lawyer	Helena
Moore, J. I.	B. M. E.		Draughtsman, Westinghouse Manufacturing Co.	Pittsburg, Pa.
Moore, Lucy J.		1875	Mrs. J. G. Ross	Fayetteville
Mooring, D. C.	M. S.	1903	Instructor in Horticulture, A. & M. College	Pullman, Wash.
Morrow, D. C.	B. E. E.	1897	Engineer	Eureka Springs
Morrow, H. E.	B. S. A.	1904	Adjunct Professor of Chemistry	University of Ark.
Morrow, Mattie W.	B. S.	1890	Mrs. J. Wilson	Fayetteville
*Mulholland, Sara	B. A.	1886	Mrs. J. F. Mayes	Fayetteville
Muller, J. F.	B. M. E.	1903	Mechanical Engineer	Little Rock

\*Deceased.



NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
Mullins, G. W.	B. A.	1904	Instructor in Math., and Comndt., Mtn. Home Acad.	Mountain Home
Mundt, L. J.	B. A., B. S.	1901		Helena
Myar, A. J.	B. C. E.	1896	Engineer, St. Louis Bridge & Iron Co.	St. Louis, Mo.
Neal, W. H.	B. L.	1876	Lawyer.	Van Buren
Nelson, R. J.	B. S.	1904	Teacher.	Foreman
Newman, A. J.	B. A.	1891	Lawyer.	Little Rock
Newman, L. L.	B. E. E.	1901	Electrical Engineer, Penn. Ry.	Altoona, Pa.
Nichols, G.	B. A.	1898	Journalist.	Denver, Col.
Notrebe, E. P.		1885	Physician.	Kansas City, Mo.
Oats, T. F.	B. A.	1892	Physician.	Mexia, Texas.
Obenskain, Ora	B. S.	1889	Teacher in Public Schools.	Eureka Springs
Orto, C. H.	B. A.	1900	Pulaski Trust Company.	Little Rock
Pace, Ida.	B. A.	1898	Mrs. A. H. Purdue.	Fayetteville
Patterson, Daisy B.	B. A.	1899	Teacher, Galloway College.	Searcy
Patton, C. C.	B. A.	1891	Lawyer.	Hillsboro, Ohio
Patton, L. Alice.	A. M.	1879	Teacher.	Prairie Grove
Patton, Mattie J.	B. L. L.	1880	Mrs. Charles Jenkins.	Denver, Col.
Pettigrew, T. A.	A. M.	1878	Lawyer.	Charleston
Pharr, H. N.	B. C. E.	1893		
Pharr, J. S.	B. A.	1892	Chief Engineer, St. Francis Levee Board.	Memphis, Tenn.
Philbeck, R. E.	B. A.	1900	Assistant Engineer, St. Francis Levee Board.	Memphis, Tenn.
Phillips, C. O.	B. A.	1904	Instructor, Preparatory Department.	University of Ark.
Pickel, J. W.	B. A.	1882	Assistant Bookkeeper, Bank of Fayetteville.	Fayetteville
Pitman, R. T.	B. A.	1882	Physician for Crystal Plate Glass Company.	Crystal City, Mo.
*Polson, Alice.	B. S.	1894	Chemist, Sloss Iron & Steel Company.	Birmingham, Ala.
Powell, W. W.	B. A.	1888	Mrs. W. C. Hutchinson.	
Price, C. G.	B. A.	1888	Lawyer.	Batesville
Pruett, W. E.	B. C. E.	1897	Bookkeeper for Yowell & Williams.	Little Rock
Purdy, Lizzie.	B. S.	1900	Assistant Engineer, Drainage Canal.	Chicago, Ill.
Putman, Anna.	B. M. A.	1875	Mrs. George Darden.	Carey, Miss.
Quarles, T. R.	B. M. E.	1904	Mrs. Charles M. King, Teacher.	Fayetteville
Rattenbury, W. H.	B. A.	1900	Mechanical Engineer.	Guthrie, Okla.
Redus, J. L.	B. A.	1896	Insurance Agent.	Fayetteville
Reed, G. W. M., Jr.	B. L. L.	1884		Lead Hill
Reed, Lina X.	B. A.	1881	United States Census Office.	Washington, D. C.
*Reed, Maggie.	B. A.	1878	Professor of English, Waynesburg College.	Waynesburg, Pa.
Remy, Mollie.	B. A.	1896	Mrs. Presley Crawford.	
			Mrs. S. C. Treadwell.	Tishomingo, I. T.

\*Deceased.



NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
Rieff, O. S.	B. A.	1881	Lawyer.	Little Rock
Rife, W. B.	B. A.	1903	Teacher.	Springdale
Risser, T. S.	B. E. E.	1904	Electrical Engineer, 1022 West Grand Avenue.	Des Moines, Iowa
Rogers, P. A.	B. A.	1892	Farmer.	Gravette
Ross, H. L.	B. A.	1901	Student, Theological Seminary.	Richmond, Va.
Ross, Lucy I.	B. A.	1901	Teacher.	Fort Smith
Ross, W. A.	B. A.	1898	Minister.	Fort Smith
*Ross, Z. C.	A. B.	1880		
Ruggles, W. A.	B. E. E.	1903	Electrical Engineer, Penn. Ry.	Altoona, Pa.
Russell, L.	A. B.	1880	Lawyer.	Russellville
Sadler, C. L.	B. C. E.	1901	Topographer, United States Geological Survey.	Washington, D. C.
Sanders, C. F.	B. A.	1899	School Principal.	Hot Springs
Sanders, T. E.	B. S.			
	B. Ph.	1901		Hot Springs
Saxon, R. L.	B. A.	1903	Medical Student, University of Tennessee.	Nashville, Tenn.
Schoff, G. C.	B. C. E.	1888	Civil Engineer, Babcock-Wilcox Company.	Philadelphia, Pa.
Sedwick, T. D.	B. A., B. S.	1902	Chemist, Rock Island Ry., 4132 Berkeley Avenue.	Chicago, Ill.
Shell, G. C.	B. L. L.	1882	Lawyer.	Lake Village
Shellenberger, Alice	B. A.	1904		Fayetteville
Shreve, A. W.	B. C. E.	1891	In business.	Farmington
Shreve, H. B.	B. C. E.	1891		Beulah, Col.
*Simms, W. D.	B. L.	1877		
*Simonds, Alice	B. S.	1896	Mrs. A. V. Smith.	
Skelton, G. V.	B. C. E.	1891		
	C. E.	1895	Professor of Mathematics, Agricultural College.	Corvallis, Ore.
Skelton, J. E.	B. S.	1897	Chemist, Roane Steel and Iron Company.	Rockwood, Tenn.
Slagle, Ida.	B. A.	1889	Mrs. W. J. Gilbreath.	Kansas City, Mo.
Sloan, C. C.	B. S.	1900	Physician.	Moline, Ill.
Smith, A. V.	B. A.	1898	Lawyer, 18 Plaza de Cervantes.	Manila, P. I.
Smith, C. D.	B. A.	1902	Graduate Student.	—, Cal.
Smith, Fannie Marie	B. A.	1901		El Dorado
Spencer, E. L.	B. A.	1898	Teacher of History, High School.	Tacoma, Wash.
Stanford, A. F.	B. C. E.	1904	St. Francis Levee Board.	Memphis, Tenn.
Streepy, J. P.	B. A.	1903	Public School Teacher.	Lonoke
Stone, B. H.	B. A.	1904	Law Student, University of Virginia.	Charlottesville, Va.
Stroup, H.	B. A.	1883	Trustee, University of Arkansas; Lawyer.	Paris
Stubblefield, Deme T.	B. A.	1901	Stenographer, Indian Commission.	Vinita, I. T.
Stubblefield, G.	B. C. E.	1902	Irrigation Engineer.	Pendleton, Ore.

\*Deceased.

NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
Sutton, Mabel	B A.	1902	Instructor, Preparatory Department.....	University of Ark.
Sutton, W S	A M	1878	Professor of Pedagogy.....	University of Texas
Swearingen, S. C.	B A	1904	Teacher	Jacksonville
*Taff, A	B C E	1890		
Taff, I. L.	B A	1884	Teachers' Agency.....	Austin, Texas
Taff, Mary	B A	1889	Mrs. G. V. Skelton.....	Corvallis, Ore.
Talbot, Lou	B L L	1883	Stenographer.....	Kansas City, Mo.
Taylor, E. L.....	B L	1876	Lawyer.....	Bentonville
Taylor, D W	B A	1900	Bookkeeper.....	Pine Bluff
Taylor, R	B A	1903	School Principal.....	Texarkana, Texas
Teague, C. V	B A	1879	Lawyer	Hot Springs
Thomason, Annie Cyna.....	B A	1900	Mrs. C. L. Dunlap.....	Fayetteville
Tillar, B. J.....	B A	1886	Capitalist.....	Fort Worth, Texas
Tillman, J. N	B L L	1880	Circuit Judge	Fayetteville
Towler, G. F.	B A	1900	Law Student.....	Little Rock
Treadway, T. C.	B E E	1901		
Treadway, W. A.....	E E	1904	Adjunct Professor of Mechanical Engineering	Fayetteville
	B M E			
Treadwell, L.....	E E	1901	Traveling Salesman, Ewing Merkle Company	St. Louis, Mo.
Treadwell, S. C	C E	1888	Engineer, St. L. & S. F. Ry. Terminal Improvement	New Orleans, La.
Triplett, C. H.	B A	1894	Lawyer	Tishomingo, I. T.
Vance, A. M.	B A	1901	In business	Pine Bluff
Vandever, J.....	B C E	1893	Engineer, Missouri Pacific Ry.	Carthage, Mo.
Vaughan, George.....	B S	1893	United States Army	
Vaulx, Eleanor	B A	1896	Lawyer	Little Rock
Vaulx, Julia.....	B A	1904	Teacher.	Palm Beach, Fla.
Vaulx, Katherine D.....	B A	1892	Professor of English, Coe College	Cedar Rapids, Iowa
Vaulx, S. F	B A	1897	Teacher.....	Palm Beach, Fla.
Waggener, Annie	B A	1892	With Bluff City Lumber Company.....	Pine Bluff
Waggener W. J.	B L	1877	Mrs. Marcus.....	Cincinnati
Walker, I. V	A M.	1876	Professor of Natural Philosophy, University of Col.	Boulder, Col.
Walker, J. W	B A	1877	Lawyer	Fayetteville
Watson, C. A	B A	1904	Medical Student	Little Rock
Watson, I. J	B A	1877	Teacher.....	Fayetteville
Warren, G. A	B A	1881	Teacher.....	Stockton, Cal.
Wasson, A. W	B L.	1888	Physician.....	Black Rock
Webster, Olive S	B A.	1902	Theological Student, Vanderbilt University	Nashville, Tenn.
	B A	1901		Marvell

\*Deceased.

NAME	DEGREE	YEAR	OCCUPATION	ADDRESS
Wheeler, J. N.	B. A.	1890	Capitalist.	Warren
Weems, C. N.	B. A.	1899	Professor, Galloway College	Searcy
Wiley, Pearle	B. S.	1902	Teacher of Science, Galloway College	Searcy
Wiley, Winona May	B. A.	1899	High School Teacher	Little Rock
Wilkinson, W. N.	B. A.	1901		Charleston
Williams, C. X.	B. A.	1904	Medical Student.	Little Rock
Williams, Hattie	B. A.	1898		Fayetteville
Williams, Jennie	B. A.	1896		Fayetteville
Williams, Naomi J.	M. A.	1880	Instructor, Preparatory Department	University of Ark.
*Willis, R. H.	B. A.	1888	Ph. D., 1896	
Wilson, H. H.	B. E. E.	1901	Electrical Engineer, Penn. Ry.	Altoona, Pa.
Wilson, J. R.	B. A.	1904	Representative, General Assembly	Warren
Wilson, W. O.	B. A.	1904	High School Teacher	Fort Smith
Womack, J. P.	B. A.	1903	School Principal.	Stephens
Wood, A. C.	B. M. E.	1892	Engineer, 1414 Pennsylvania Building.	Philadelphia, Pa.
Wood, B. F.	B. E. E.	1893	Assistant Engineer, Penn. Ry., 2520 Broad Avenue	Altoona, Pa.
Wood, C. D.	B. A.	1879	Associate Justice, Supreme Court of Arkansas.	Little Rock
Wood, C. F.	B. C. E.	1904	With B. & O. Ry.	Pittsburg, Pa.
Wood, G. B.	B. A.	1899	Kansas City Southern Ry. Office	Texarkana
Woodall, W. H.	B. A.	1885	Principal, Female College.	Lake City, Fla.
Woolverton, C. D.	B. L. L.	1885	Teacher	Center Ridge
Young, Daisy	B. A.	1900	Instructor, Preparatory Department	University of Ark.

\*Deceased.

NOTE. -The President will be pleased to receive information as to the address and occupation of those alumni for whom these data are wanting. The alumni are especially requested to give notice of any omission or errors in the foregoing list, or any changes made during the ensuing year.

STATISTICS RELATING TO THE COLLEGIATE GRADUATES OF THE  
UNIVERSITY OF ARKANSAS TO THE YEAR 1905.

Graduates.....	351
Alumni.....	267
Alumnæ.....	84
Graduates of Engineering courses.....	72
Graduates of all other courses.....	279
Bachelors of Arts.....	206
Graduates of all other courses.....	145
Occupations of living graduates.....	19
Teachers.....	72
Lawyers.....	49
In business occupations.....	39
Married alumnæ living.....	35
Civil Engineers.....	32
No occupation reported.....	24
Deceased.....	19
Graduate students.....	17
Electrical Engineers.....	13
Physicians.....	13
Mechanical Engineers.....	7
In the Army and Navy.....	5
Farmers.....	5
Chemists.....	5
Journalists.....	4
Judges.....	4
Clergymen.....	4
Geologist.....	1
Mining Engineer.....	1
Pomologist.....	1
Librarian.....	1

COLLEGIATE ALUMNI ASSOCIATION.

The object of this Association is to maintain the interest of the graduates in the institution and bring them into a closer relation with the University. To this end all of its collegiate graduates are regarded as members. The association holds annually a meeting and a banquet at some time during Commencement week. The officers are as follows:

T. B. KITCHENS, 1880, *President*.

J. C. FLOYD, 1879, *Vice President*.

MABEL SUTTON, 1902, *Secretary*.

IDA PACE PURDUE, 1888, *Treasurer*.

G. W. DROKE, 1880,

W. A. TREADWAY, 1901,

MABEL SUTTON, 1902,

} *Executive Committee.*

## U. OF A. ALUMNI ASSOCIATION OF MEMPHIS, TENN.

The object of this association is to help the interests of the University and to promote friendly relations among the former and present students of the University who reside in or visit Memphis and vicinity. Annual meetings are held on the first Tuesday in May, and quarterly meetings on the first Tuesday in August, November and February. The officers of the association are:

H. N. PHARR, 1893, *President*.

J. C. BELL, 1894, *Vice President*.

T. D. LAWLER, *Secretary and Treasurer*.

It is hoped that the former and present students of the University in other places will organize local associations.

**\*NORMAL GRADUATES.**

NAME	ADDRESS	YEAR
Blair, Leora.....	.....	1904
Blanchard, Fay Holbrook.....	.....	1904
Cartwright, W. W.....	Mountain View.....	1903
Clark, Flora L.....	Mena.....	1903
Cole, Mary E.....	Student, University of Arkansas.....	1903
Davies, Mary Louise.....	.....	1904
Easterly, Maud.....	Fayetteville.....	1899
Ellis, Miggie.....	Fayetteville.....	1898
Gallaway, Irene.....	Fayetteville.....	1890
Hall, Hubert J.....	Fayetteville.....	1887
Hamilton, J. W.....	Hartford.....	1891
Hardin, Lena Jane.....	Fayetteville.....	1902
Hobbs, W. D.....	Bentonville.....	1899
Holcomb, C.....	Clarendon.....	1890
Johnson, J. E.....	New Louisville.....	1900
Kimbrough, N. D.....	Dutch Mills.....	1900
Kuykendall, James Wesc.....	.....	1904
Mitchell, Brainerd.....	.....	1904
Morrow, Lula C.....	Fayetteville.....	1899
Nelson, Rufus J.....	School Principal, DeQueen.....	1903
Oates, Charles Everett.....	Paris.....	1904
Peterson, W. J.....	Paris.....	1903
Southerland, J. W.....	Hindsville.....	1888
Streepy, J. P.....	Lonoke.....	1903
Stubblefield, Demie T.....	Fayetteville.....	1899
Taff, J. H.....	Waldron.....	1887
Thompson, Albert S.....	.....	1904
Walker, James Walter.....	.....	1904
Watkins, W. H.....	.....	1897
Whitehead, Alexander Dixon.....	.....	1904
Wilson, J. R.....	Law Student, Little Rock.....	1903
Wilson, W. O.....	High School Teacher, Ft. Smith.....	1901
Williams, Charles X.....	Medical Student, U. of A.....	1902
Williams, Mattie.....	Fayetteville.....	1897
Womack, Joseph P.....	Stephens.....	1902

\*NOTE. This is only a partial list of the normal graduates, as no complete record has been taken from year to year. The addresses are taken from old University catalogues. We ask the graduates of this department to help complete the list and correct the addresses. Address Prof. W. S. Johnson, Fayetteville, Ark.

ALUMNI OF THE MEDICAL SCHOOL OF THE UNIVERSITY OF  
ARKANSAS.

NAME	STATE	YEAR
Adams, Joseph G.....	Arkansas.....	1890
Agerton, George Green.....	".....	1888
Allen, James Genoce.....	".....	1891
Allen, Samuel W.....	".....	1882
Anderson, Charles C.....	".....	1900
Armstrong, John C.....	Texas.....	1893
Armstrong, N. E.....	Arkansas.....	1902
Bailey, Walter E.....	".....	1895
Baker, Robert L.....	Missouri.....	1892
Baker, William Pitt.....	Arkansas.....	1891
Baker, James E.....	".....	1893
Barnett, John J.....	".....	1893
Basham, John P.....	".....	1883
Basham, Olin.....	".....	1885
Baugh, William F.....	".....	1885
Baum, Frank.....	".....	1891
Bennett, Alfred.....	".....	1887
Bennett, Burrell L.....	".....	1892
Bennett, William H.....	".....	1895
Bentley, Carle E.....	".....	1895
Beakley, Napoleon B.....	".....	1893
Black, Evan M.....	".....	1901
Blackwell, W. I.....	".....	1903
Blakely, John P.....	".....	1893
Blakely, Thomas B.....	".....	1883
Blackburn, Thomas W.....	".....	1882
Bogart, J. A.....	".....	1902
*Bond, Sterling Price.....	".....	1886
Bonham, Samuel S.....	".....	1895
Bond, Thomas J.....	Indian Territory.....	1895
Bradley, Benjamin R.....	Arkansas.....	1889
Bristow, Jessie E.....	Indian Territory.....	1894
Brown, John Frederick.....	Arkansas.....	1891
Brumfield, Richard S.....	Missouri.....	1891
Bryan, Silas A.....	Arkansas.....	1886
Bryan, William T.....	".....	1884
Buckner, Rufus G.....	North Carolina.....	1897
Buckner, Thomas J.....	Texas.....	1892
*Bunn, Dudley B.....	Arkansas.....	1881
Burgess, Sidney C.....	".....	1886
Bush, Francis D.....	Indian Territory.....	1888
Butler, John L.....	Arkansas.....	1894
Butler, Samuel S.....	".....	1901
Butler, William R.....	Texas.....	1901
Callahan, E. A.....	Arkansas.....	1903
*Campbell, Floyd S.....	".....	1892
Cantrell, Charles E.....	".....	1893
Cantrell, William W.....	Texas.....	1897
Carden, James D.....	Arkansas.....	1894
Carey, Anger B.....	".....	1888
Carroll, Daniel C.....	".....	1881
Carver, Cluyburn R.....	Texas.....	1898
*Chamness, Gilbert C. T.....	Arkansas.....	1886
Chastain, Charles H.....	".....	1900
Chenault, John C.....	".....	1895
Chenault, Richard.....	".....	1887

\*Deceased.

ALUMNI OF THE MEDICAL SCHOOL OF THE UNIVERSITY OF  
ARKANSAS.

NAME	STATE	YEAR
Childers, Jonathan M.	Arkansas	1901
Clancey, Thomas J.	"	1897
Clark, Charles D.	"	1898
Clark, William I. A.	"	1897
Clayton, James L.	Louisiana	1891
Cline, Isaac M., A. M.	Tennessee	1885
Clingan, A. J.	Arkansas	1902
Collins, Fred A.	"	1893
Coors, George A.	"	1886
Cook, Louis A.	"	1895
Cureton, Hugh E.	"	1895
Daly, J. M.	"	1897
Damron, Alonzo L.	"	1901
Daugherty, James	Texas	1897
Davenport, Robert G.	"	1893
Davis, William A.	Arkansas	1884
Dibrell, Edwin R.	"	1882
Dibrell, John R.	"	1900
Dibrell, Matt S.	"	1889
Dickinson, George L.	"	1892
Dillard, Bee A.	Louisiana	1896
Donaldson, C. W.	Missouri	1903
Driver, John H.	Arkansas	1884
Duncan, Lorenzo D.	"	1897
Dunman, Gonzalas	"	1900
Dunnahoo, Benjamin S.	"	1888
Durham, George W.	Texas	1892
Eaves, James B.	Arkansas	1886
Eddy, J. D.	"	1902
Edwards, D. H.	"	1902
Elam, George F.	"	1889
Elliott, George T.	Texas	1896
Elliott, J. E.	Arkansas	1903
Eubanks, Felix G.	"	1887
Evans, David C.	"	1896
*Evans, William P.	"	1887
Fike, William T.	"	1896
Fisher, Daniel N.	"	1896
Fletcher, Thomas M.	"	1889
Fly, T. M.	"	1903
Foster, John R.	South Carolina	1896
Poster, R. C.	Arkansas	1903
Fowler, William R.	"	1890
Freeman, William D.	"	1899
French, Frank L.	"	1882
Gannaway, Columbus E.	"	1896
Gatlin, Eugene N.	"	1889
George, Isaac M.	"	1881
Gibson, G. H.	Texas	1903
Gipson, Thomas J.	"	1889
Gladden, Roger Burns	"	1888
Graham, Andrew J.	"	1881
Graham, James F.	"	1887
Greene, Edwin P.	Indian Territory	1900
Griffin, John L.	Arkansas	1881
Guthrie, Adam, Jr.	"	1893

\*Deceased.



ALUMNI OF THE MEDICAL SCHOOL OF THE UNIVERSITY OF  
ARKANSAS.

NAME	STATE	YEAR
Haizlip, Numa A.....	North Carolina.....	1901
Hale, W.....	Texas.....	1892
Hamilton, Andrew J.....	Arkansas.....	1893
*Hancock, John I.....	.....	1893
Harkey, Reuben M.....	.....	1886
Harkey, William I.....	.....	1893
Harkness, John H.....	.....	1881
Harris, Larkin L.....	.....	1891
Harrison, Andrew J.....	.....	1901
Harrison, Mark W.....	Indian Territory.....	1898
*Harrolson, William H.....	Arkansas.....	1881
Hart, Thomas C.....	.....	1891
Hartsell, John S.....	.....	1888
Hays, Perry C.....	.....	1901
Hauman, Henry.....	.....	1892
Herring, Robert G.....	.....	1901
Herrod, Willis L.....	.....	1891
Heron, Alfred W.....	.....	1891
Higgs, Archie K.....	.....	1891
*Higgs, James Cofield.....	.....	1890
Hill, Benjamin Levin.....	.....	1887
Hill, Israel.....	Indian Territory.....	1898
Hippolite, Fred A.....	Arkansas.....	1891
Hodges, Thomas E.....	.....	1888
Hornbarger, William J.....	.....	1884
Hughes, William B.....	.....	1889
Hunt, William R.....	.....	1889
Hurley, Charles E.....	.....	1892
Illing, William P.....	.....	1889
Jackson, James Henry.....	.....	1891
Jackson, Norborn H.....	.....	1881
Jackson, Norborn H., Jr.....	.....	1901
Jackson, William J.....	.....	1889
Jacobs, Jessie J.....	.....	1898
James, Edward D.....	.....	1901
Jeffery, Theodore E.....	.....	1898
Jennings, Orville.....	.....	1897
Johnson, Victor M.....	.....	1896
Jones, Isaac Garrett.....	.....	1889
Jones, William E.....	.....	1896
Joyner, William T.....	.....	1889
Kelly, Edward L.....	.....	1896
Kelly, John L.....	Louisiana.....	1898
Kelley, Warren.....	Arkansas.....	1897
Kerley, William W.....	.....	1898
Key, Wesley F.....	Texas.....	1885
Kimberlin, John C.....	Arkansas.....	1897
King, Jacob H. C.....	.....	1889
Knox, Benson.....	Texas.....	1886
Kolb, James Silas.....	Arkansas.....	1892
Krueger, E.....	.....	1902
Lantorn, Zachary J.....	.....	1885
*Laster, James D.....	.....	1886
Lane, Edward C.....	.....	1896
Lay, Shelby.....	.....	1898
Layne, Edward R.....	.....	1888

\*Deceased.

ALUMNI OF THE MEDICAL SCHOOL OF THE UNIVERSITY OF  
ARKANSAS.

NAME	STATE	YEAR
*Lee, Richard H.....	Arkansas.....	1885
Leonard, J. D.....	.....	1903
Lewis, G. W.....	.....	1902
Lindsey, C. W.....	.....	1901
Lindsey, James H.....	.....	1884
Lindsey, William S., Jr.....	.....	1884
Lively, William M.....	.....	1892
Liverman, James R.....	Texas.....	1900
Long, William J.....	Arkansas.....	1897
Love, Jerome D.....	.....	1894
Luther, Joel E.....	.....	1897
McBride, George A.....	.....	1889
McClain, M. D.....	.....	1902
McConnell, John W.....	.....	1884
McCurry, Louis E.....	.....	1890
McDonald, Andrew J.....	.....	1901
McKelvey, Aaron A.....	.....	1894
Madole, Berry W.....	Kentucky.....	1898
*Mashburne, Thomas R.....	Arkansas.....	1893
Mason, George K.....	.....	1890
Mason, Jefferson McI.....	Texas.....	1888
Mathews, Joseph H.....	Arkansas.....	1893
Matlock, George S.....	.....	1900
Maxwell, Isaac L.....	Texas.....	1886
Meeks, Edward D.....	Arkansas.....	1893
Mickel, Frederick A.....	.....	1893
Miller, Jacob T.....	.....	1889
Miller, Samuel E.....	.....	1891
Miller, William H.....	.....	1888
Minturn, Horatio F.....	New York.....	1899
Moeur, Benjamin B.....	Texas.....	1896
*Moeur, John K.....	.....	1894
Moncrief, Joseph J.....	Alabama.....	1897
Montgomery, Henry L.....	Arkansas.....	1894
*Morden, James G.....	.....	1886
Moreland, L. B.....	.....	1898
Morrow, John J.....	.....	1889
Munn, Jesse B.....	.....	1899
Murray, John V.....	.....	1886
Nail, Charles C.....	.....	1889
*Nichols, Marion M.....	.....	1887
Oliver, Hardy P.....	Texas.....	1894
Ogilvie, James W.....	Arkansas.....	1892
Ozment, Samuel J.....	.....	1898
Palmer, Luther B.....	.....	1892
Parham, Smead F.....	.....	1897
Parker, James.....	.....	1902
Parker, Samuel.....	.....	1892
Patterson, Charles H.....	.....	1896
Patterson, William F.....	Tennessee.....	1884
Patton, John W.....	Arkansas.....	1889
Payne, Frank P.....	.....	1890
Pease, John Benjamin, Jr.....	Mississippi.....	1891
Perdue, John W.....	Arkansas.....	1895
Phillips, J. A.....	.....	1903
Phillips, John Morgan.....	.....	1891

\*Deceased.

ALUMNI OF THE MEDICAL SCHOOL OF THE UNIVERSITY OF  
ARKANSAS.

NAME	STATE	YEAR
Phillips, Reuben Young	Arkansas	1891
Pickett, William S.	Alabama	1888
Pinson, Thomas M.	Arkansas	1880
Pinson, William Byrd	"	1891
Pinson, William J.	"	1882
Pipkin, John W.	"	1890
Pleas, Edgar F.	"	1893
Potts, James R.	"	1897
Powell, Millard F.	"	1892
Powell, James P.	Louisiana	1896
Powley, Charles Perry	Canada	1881
Poynor, Isaac M.	Arkansas	1890
Prothro, Hassel	"	1890
Quinn, Lot L.	"	1895
Ragsdale, Lewis T.	"	1888
Redfearn, Harrison	Mississippi	1887
Reece, David T.	Indian Territory	1901
Rhodes, James F.	Arkansas	1886
Rice, Clinton A.	"	1901
Ringgold, George W.	"	1886
Ringgold, John W.	"	1890
Robinson, Frank C.	"	1896
Rogers, William F.	"	1888
Russell, Robert L.	"	1898
Rutherford, Thomas F.	"	1883
Rutherford, S. C.	Indian Territory	1901
Ryan, Isaac A.	Arkansas	1887
Ryan, Joseph V.	Texas	1897
Rye, Charles	Arkansas	1889
Sadler, Henry David	"	1891
Seaver, James A.	"	1883
Selman, Henry S.	Texas	1896
Sheppard, James M.	Arkansas	1897
Shoppach, Annie A.	"	1901
Shuford, Felix B.	Texas	1898
Shuler, James L.	Arkansas	1887
Simpson, Richard H.	"	1887
Slaight, John L.	"	1889
Smith, Daniel M.	Texas	1887
Smith, Elbert H.	Indian Territory	1898
Smith, George W. R.	Arkansas	1891
Smith, Lewis C.	"	1884
Smith, Morgan	"	1889
Smith, Robert J.	"	1890
Smith, William J.	"	1888
Snodgrass, William A.	"	1897
Stanfield, M. F.	"	1890
Stark, Calvin B.	"	1890
Steed, C. J.	"	1903
Steed, Pinkney M.	"	1898
*Stevenson, Thomas	"	1881
Stephenson, A. J.	"	1898
Stewart, James L.	"	1895
Stobaugh, Fielding B.	"	1897
Stokes, B. S.	"	1902
Stewart, J. B.	"	1903

\*Deceased.

ALUMNI OF THE MEDICAL SCHOOL OF THE UNIVERSITY OF  
ARKANSAS.

NAME	STATE	YEAR
Suggs, Frank.	Arkansas.	1897
Sykes, Arthur H.	"	1895
Tatum, Oscar H.	"	1888
Thibault, Henry	"	1900
Thomasson, Joseph B.	"	1894
Thomasson, Nicholas T.	"	1881
Thompson, James Isaac	"	1892
Thompson, John W.	"	1887
Thompson, Lewis O.	"	1884
Thompson, Robert C.	"	1891
Thompson, Robert E.	Louisiana.	1885
Thompson, William	Arkansas.	1897
Tims, Talbot B.	"	1886
Todd, James H.	"	1894
Tolleson, George W.	"	1898
Tolleson, Robert E.	"	1898
Toner, Harry M.	Indiana.	1895
Treadway, Paca H.	Arkansas	1894
Truitt, Edward.	"	1893
Turner, Wert B.	Virginia	1888
Tunham, Harrison H.	Arkansas.	1887
Ulmer, Charles F.	Texas.	1895
Vaughan, John T.	Arkansas.	1892
Vaughan, Milton.	"	1892
Vaughter, Samuel Paul.	"	1892
Voris, James H.	"	1901
Wallace, Charles T.	"	1897
Walton, James W.	"	1892
Walton, Paul N.	Texas.	1891
Ward, S. J.	Arkansas.	1892
Ward, W. W.	"	1902
Ware, John C.	"	1886
Waterfield, Floyd E.	Indian Territory	1899
Watkins, Anderson.	Arkansas.	1897
Watkins, Garland J.	"	1897
Watkins, J. G.	"	1903
Waterson, Benjamin F.	"	1881
Waters, George Aaron.	"	1892
Waters, George Alvis.	Indian Territory.	1890
Wear, John B.	Arkansas.	1888
Webb, Abner L.	Texas.	1884
West, James W.	Indian Territory	1901
Westbrooks, Thomas H.	Arkansas	1892
*Wiggs, John J.	"	1888
Williams, Eugene W.	Texas	1899
Williams, A. A. C.	Arkansas.	1884
Wilson, David F.	"	1891
Wilson, James J.	"	1893
*Wilson, John F.	"	1897
Wood, Neal.	"	1890
Woolford, William S.	"	1894
Wycough, William E.	"	1892
Young, John M.	"	1895
Zachary, Burr S.	"	1883
Zuber, Lee.	"	1901

\*Deceased.

ONLY HONORARY DEGREES GRANTED.

NAME	STATE	YEAR.
*Dibrell, James D., Sr., M.D . . . .	Arkansas.	1884
*Du Val, E. R., M.D.. . . . .	"	1880
Keller, James M., M. D . . . .	"	1883
*Lawrence, William, M. D . . . .	"	1885
Thompson, William, M. D.. . . .	"	1881
Welch, William B., M. D. . . . .	"	1881

\*Deceased.

# ALUMNI OF THE LAW SCHOOL OF THE UNIVERSITY OF ARKANSAS.

NAME	YEAR	OCCUPATION	ADDRESS
Allnut, Richard Robinson	1903	Lawyer.	Little Rock
Andereck, W. H.	1894	Lawyer.	Little Rock
Andrews, C. B.	1899	Lawyer.	Prescott
Armistead, Henry M.	1895	Lawyer; firm of Oldham & Armistead.	Little Rock
Bernhardt, J.	1896	Lawyer.	Dumas
Black, John W.	1894	Lawyer.	So. McAlester, I. T.
Bradshaw, De Emmett	1894	Lawyer, firm of Bradshaw & Helm	Little Rock
Bratton, Ulysses S.	1897	Assistant United States District Attorney	Little Rock
Brooks, W. B.	1901	Lawyer.	Little Rock
Brown, W. Sprig	1894	Lawyer.	Poplar Bluff, Mo.
Burns, Charles T.	1898	Lawyer.	Black Rock
Campbell, Roy D.	1895	Lawyer; firm of Campbell & Stevenson.	Little Rock
Carmichael, John C.	1894	Lawyer; Dean of Law Department, University of Ark.	Little Rock
Clayton, John M.	1903	Lawyer.	California
Clayton, Powell.	1900	Lawyer.	Little Rock
Cotham, C. T.	1901	Lawyer; firm of Wells, Williams & Cotham	Monticello
DeBerry, P. T.	1899		Paris
Dickinson, Thomas Tillar	1902	Lawyer.	Little Rock
Dodge, Frank Hatton.	1902	Lawyer.	Little Rock
Dunaway, Julian J.	1896	Lawyer.	Little Rock
Duty, Mike K.	1891	Lawyer.	Pennsboro, W. Va.
Evans, W. H.	1899	Lawyer, County and Probate Judge, Saline County.	Benton
Fraser, Garner.	1903	Lawyer.	Clinton
Frierson, Gordon	1896	Lawyer.	Jonesboro
Frierson, Charles D.	1900	Lawyer.	Jonesboro
Gallaher, James A.	1898		Paris
Gulley, L. C.	1898		Little Rock
Guthrie, Eugene P.	1898	Life Insurance Agent	Little Rock
Harrison, W. F.	1900	Lawyer; firm of Driver & Harrison.	Osceola
Haskell, Norman P.	1903	Lawyer.	Muscogee, I. T.
Henderson, George DeMatt	1903	Lawyer.	Little Rock
Hendricks, George Walter	1902	With Office of Secretary of State	Little Rock
Helm, T. E.	1900	Lawyer; firm of Bradshaw & Helm	Little Rock
Herring, Byron Leonidas	1902	Lawyer.	Warren
Hill, Samuel B.	1898	Lawyer; firm of Hill & Poe	Danville
Holder, Fred Ellensworth.	1903	With Rock Island Railway Co.	Little Rock
Huddleston, Mike P.	1897	Lawyer; firm of Johnson & Huddleston	Paragould
Jeffers, S. L.	1899	First Lieutenant, United States Army.	

NAME	YEAR	OCCUPATION	ADDRESS
Johnson, Robert Ward	1903	With Union Trust Co.	Little Rock
Kempner, Abe J.	1899	Lawyer.	Little Rock
Kerby, John Price		Lawyer.	Lonoke
Kirten, William	1899	Lawyer.	Lake Village
Klein, Adolph C.	1897		Omaha, Neb.
Lankford, Eugene	1895	Lawyer; firm of McClintock & Langford	DeValls' Bluff
Lewis, John Jackson	1903	Lawyer.	Pocahontas
Lewis, William	1899	Lawyer; firm of Murphy, Mehaffy & Lewis	Little Rock
Lindsey, Edwin William	1902	With G. L. Mevers & Co.	Little Rock
Loughborough, J. Fairfax	1894	Lawyer; firm of Cantrell & Loughborough	Little Rock
Lynn, Roscoe R.	1900	Lawyer.	Little Rock
M. Knight, J. S.	1900	Lawyer; firm of Poole & McKnight	Hampton
Maloney, Lawrence C.	1894	Lawyer.	Little Rock
Martineau, John E.	1899	Lawyer; firm of Robertson & Martineau	Little Rock
Martin, Robert	1903	Lawyer.	Little Rock
McDairmid, George C.	1895		Little Rock
McRea, Charles C.	1896	Lawyer.	Dallas, Texas
Moore, John Merrick	1902	Post-graduate work, Columbia University	New York City
Morris, Crestie D.	1903	Lawyer.	Little Rock
Nichols, W. F.	1901	Lawyer.	Lockesburg
Norfleet, T. B.	1901	Lawyer.	Paris
Pettit, Clide Ernest	1902	Lawyer; firm of Pettit & Pettit	Stuttgart
Pindall, E. S.	1896	Lawyer; firm of Pindall & Pindall	Dumas
Pindall, X. O.	1896	Lawyer.	Arkansas City
Polk, Charles M.	1898	Lawyer.	St. Louis Mo.
Polk, R. W.	1894	With C. O. & G. R. R.	Little Rock
Powers, R. C.	1898	With St. L. I. M. & S. Ry. Co.	Little Rock
Reyburn, Samuel W.	1894	Banker.	Little Rock
Rhoton, Lewis	1894	Lawyer.	Little Rock
Robertson, T. N.	1898	Lawyer; firm of Robertson & Martineau	Little Rock
Rose, Milton	1899	Lawyer.	Little Rock
Rushing, Frank W.	1901	Lawyer.	Eufala, I. T.
Samuel, David B.	1895	Lawyer.	
Shackleford, John D.	1894	Lawyer; firm of Shackelford & Shackelford	Little Rock
Stanford, Theodore W.	1891		Waldron
Stevenson, James H.	1897	Lawyer; firm of Campbell & Stevenson	Little Rock
Smith, Clay E.	1903	Lawyer, Peoples Security Co.	Little Rock
Terry, David Dickson	1903	Lawyer.	Little Rock
Touhey, John H.	1895	Merchant.	Little Rock
Tucker, D. Everett	1903	Lawyer.	Little Rock



NAME	YEAR	OCCUPATION	ADDRESS
Vaughan, George.....	1898	Lawyer.....	Little Rock
Venable, J. H.....	1901	Lawyer.....	Camden
Walker, Thomas J.....	1897	Hospital Steward, United States Army.....	Little Rock
Watkins, Charles L.....	1903	With Board of World's Fair Commissioners.....	Little Rock
Westbrook, Henry S.....	1897	Postmaster.....	Benton
Welch, Albert F.....	1903	Lawyer.....	Morrilton
Williams, Ernest Edward.....	1902	Lawyer.....	Grayville, Ill.
Wills, J. F.....	1903	Official Court Stenographer, Fifth Judicial Circuit.....	Morrilton
Wooten, June Price.....	1902	Lawyer.....	Little Rock

## ALUMNI ASSOCIATION OF THE UNIVERSITY OF ARKANSAS LAW SCHOOL.

The object of this association is to perpetuate a bond of union among its members, to encourage a spirit of friendship, and to promote the interest of the law department and its alumni.

The association meets in Little Rock for the election of officers and other business on the day of the annual banquet which is held during the commencement of the law department in June.

## ALPHABETICAL LIST OF OFFICERS AND STUDENTS OF THE DEPARTMENTS AT FAYETTEVILLE.

*Abbreviations.* *Adj. Prof.*, Adjunct Professor; *Assoc. Prof.*, Associate Professor; *C.*, Conservatory of Music and Arts; *Fr.*, Freshman; *G.*, Graduate; *Instr.*, Instructor; *Jr.*, Junior; *1 P.*, First Year Preparatory; *2 P.*, Second Year Preparatory; *Prof.*, Professor; *S. C.*, Short Course in Engineering; *So.*, Sophomore; *Sp.*, Special; *Sr.*, Senior; *Un.*, Unclassified. For list of students by classes, see pages 181-207; for officers, see pages 18 to 26.

Abercrombie, Bertha, <i>Sr.</i>	Barry, Lucile L., <i>Sp.</i>	Blair, D. B., <i>So.</i>
Abercrombie Clara D., 2 <i>P.</i>	Barton, D. E., 2 <i>P.</i>	Blair, Lelia J., <i>So.</i>
Abercrombie, E., 2 <i>P.</i>	Barton, Maude L., <i>Fr.</i>	Blakemore, T. L., <i>Fr.</i>
Atkins, J. W., <i>So.</i>	Baum, E. J., 2 <i>P.</i>	Blasingame, Virgil E., 2 <i>P.</i>
Alexander, Mary E., 1 <i>P.</i>	Beane, Ada L., <i>So.</i>	Block, David, <i>Sp.</i>
Allbright, Ella, <i>So.</i>	Beard, A. H., <i>Sr.</i>	Block, S. M., 2 <i>P.</i>
Allen, Estes, 2 <i>P.</i>	Beasley, W. H., <i>Fr.</i>	Bloom, J. R., <i>G.</i> , <i>Instr.</i>
Allen, Joe C., 2 <i>P.</i>	Beckett, C. M., <i>Fr.</i>	Boazman, A. W., <i>S. C.</i>
Alston, Roy, 1 <i>P.</i>	Beckett, L. F., <i>Fr.</i>	Boggs, J. F., 2 <i>P.</i>
Anderson, Mary H., 1 <i>P.</i>	Belknap, Beatrice V., 2 <i>P.</i>	Bohart, A. G. T., <i>Sp.</i>
Andrix, Annie, 1 <i>P.</i>	Belknap, J. R., <i>S. C.</i>	Boles, C. B., 1 <i>P.</i>
Andrix, E. R., <i>Jr.</i>	Bell, C. K., 1 <i>P.</i>	Boles, E. C., <i>Fr.</i>
Austin, R. L., <i>Jr.</i>	Bell, J. W., 2 <i>P.</i>	Bolinger, W. A., <i>So.</i>
Babb, Walter, 1 <i>P.</i>	Bennett, Ora L., 2 <i>P.</i>	Booth, D., 1 <i>P.</i>
Baird, Cordelia, <i>Instr.</i>	Benson, F. P., <i>So.</i>	Borders, J. M., <i>Jr.</i>
Baker, E. M., 2 <i>P.</i>	Bernard, H., 1 <i>P.</i>	Bost, Edna E., 1 <i>P.</i>
Baker, F. G., 2 <i>P.</i>	Bernard, J., 2 <i>P.</i>	Bowen, A. W., 2 <i>P.</i>
Baker, G. C., <i>So.</i>	Berry, F. H., <i>Sp.</i>	Bowers, E. J., 1 <i>P.</i>
Baker, H., 1 <i>P.</i>	Bettis, A. B., 2 <i>P.</i>	Bracken, J. C., 1 <i>P.</i>
Baker, Myrtle, 2 <i>P.</i>	Bird, E. V., <i>Fr.</i>	Brashears, G. B., 1 <i>P.</i>
Balch, C. P., <i>So.</i>	Bishop, J. M., <i>S. C.</i>	Brackenridge, G. T., <i>Trustee.</i>
Ballard, B. C., <i>Jr.</i>	Bixler, Pearl E., <i>Fr.</i>	Brockman, E. W., <i>Jr.</i>
Ballard, J. M., <i>So.</i>	Black, C. N., <i>Jr.</i>	Brodersen, Genevieve C., <i>Instr.</i>
Ballard, Lydia, 2 <i>P.</i>	Black, Kate E., 1 <i>P.</i>	Brough, C. H., <i>Prof.</i>
Ballard, R. C., 2 <i>P.</i>	Black, R. L., 1 <i>P.</i>	Brough, Ruth, <i>Fr.</i>
Barr, Frank, <i>Band Ldr.</i>	Blackford, O. C., 1 <i>P.</i>	Brown, Ellen E., 2 <i>P.</i>
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